



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**  
Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in



COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**44**  
years

**A Report on  
Faculty Development Programme  
On  
Establishment & Management of  
Business Incubators  
(14-18 March 2023)**

**Organized by  
Entrepreneurship Development Cell,  
CBIT**



**Entrepreneur "rising" Ideas**



**MSME**  
MICRO, SMALL & MEDIUM ENTERPRISES  
सूक्ष्म, लघु एवं मध्यम उद्यम

**Sponsored by ni-msme**

**National Institute for Micro, Small and Medium Enterprises (ni-msme)**  
*An Organisation of Ministry of MSME, Govt. of India and An ISO  
9001:2015 Certified* Yousufguda, Hyderabad – 500 045

*Reddy*  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana

Incubators assist startups by providing an integrated package of work space, shared office services, access to specialized equipment and machinery along with value added services like fund raising, legal services, business planning, technical assistance and networking support.

In India Business Incubators exist since 1980 which were supported by the Government of India, but later private sector also entered in setting-up of Incubators. There are two types of Business Incubators, one which focuses on promotion of technology-based enterprises and assist in completion of the technologies under development and are generally located at or near universities, R&D institutes, and Science and Technology parks and another promote regional and national economic growth through job creation and utilizing local resources. Hence, main objective of the business incubators is to produce successful business ventures that create jobs and wealth in the country.

A good number of Institutions including private sector are now managing Business Incubators and many others are keen to setup the same. In this regard, EDC, CBIT in collaboration with **ni-msme** organized Faculty Development Program on **“Establishment & Management of Business Incubators”** during **14-18 March 2023** to create awareness on significance of Incubation Centers, design of revenue model for its successful management apart from sharing of experiences in promoting innovative ventures.

  
**PROFESSOR & HEAD**  
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## Poster



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.ebit.ac.in



COMMITTED TO  
RESEARCH,  
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years

### FACULTY DEVELOPMENT PROGRAMME



ON

**Establishment and Management**

OF

**Business Incubators**

**14-03-2023 To 18-03-2023**

Organized by

**Entrepreneurs Development cell**



Entrepreneur rising ideas

Fig : Poster - Faculty Development Programme On Establishment & Management of Business Incubators (14-18 March 2023)

Convener	Dr. P.Prabhakar Reddy, Professor & Head, Department of Mechanical Engineering, CBIT
Coordinator	Ms V.Sandhya, Assistant Profesor, Department of Mechanical Engineering, CBIT
Coordinator	Dr. K.Prasad Babu, Assistant Professor, Department of Chemical Engineering, CBIT

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
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# వ్యవస్థాపకత వాటి నిర్వహణపై అధ్యాపకులకు విజ్ఞాన అభివృద్ధి చేసే కార్యక్రమం.


ప్రజావినికిడి,(మెహదీపట్నం):

ఎన్ఐ-యమ్ఎస్ యమ్ఈ  
స్పాన్సర్ చేస్తున్న వ్యవస్థాపకత  
మరియు వాటి నిర్వహణపై ఫ్యాకల్టీ  
డెవలప్ మెంట్ కార్యక్రమం  
మంగళవారం రోజు సి బి ఐ టి  
కళాశాల లో ప్రారంభమైంది. ముఖ్య  
అతిథి గడ్డం సుదర్శన్ మాట్లాడుతూ,  
ఎన్ఐ-యమ్ఎస్ యమ్ఈ



ఇంక్యుబేషన్ ప్రోత్సహించడానికి భారత ప్రభుత్వం అందిస్తున్న వివిధ కార్యక్రమాల గురించి వివరించారు. కళాశాల లో గల ఎంటర్ప్రెన్యూర్షిప్ డెవలప్ మెంట్ సెల్ ఈ కార్యక్రమం ను నిర్వహిస్తున్నది అని కళాశాల ప్రిన్సిపాల్ డాక్టర్ పి.రవీందర్ రెడ్డి తెలిపారు మాట్లాడుతూ, దేశాభివృద్ధికలో ఆవిష్కరణలు మరియు ఇంక్యుబేషన్ ఆవశ్యకత గురించి చెప్పారు. ఐ అండ్ ఐ డైరెక్టర్ ప్రొఫెసర్ యు.కె. చౌదరి మాట్లాడుతూ, శిశువు జన్మించినప్పుడు, అతను/ఆమెను మొదటి కొన్ని గంటలు మరియు కొన్ని రోజులు ఇంక్యుబేటర్ లో ఉంచుతారు - ఇది బయటి వాతావరణానికి సర్దుబాటు చేసే అవకాశాన్ని ఇస్తుంది మరియు వారు బయటి ప్రపంచాన్ని ఎదుర్కోవటానికి ఎంతో ఉపయోగపడుతుంది ! అదే విధంగా, ఒక స్టార్టప్ ఇంక్యుబేషన్ సెంటర్ లో ఇంక్యుబేట్ చేయటం ధ్వారా వారు ప్రపంచానికి చేరుకోవడానికి ముందు వారి వ్యాపారాన్ని ఒక ఆకృతిలోకి తీసుకురావడానికి వారికి ఒక అవకాశం ఇస్తుంది అని తెలిపారు. ఈ కార్యక్రమ కన్వీనర్ ప్రొఫెసర్ ప్రభాకర్ రెడ్డి కళాశాలలో జరుగుతున్న వ్యవస్థాపక కార్యక్రమాలను వివరించారు.

Fig: Inaugural of FDP in news paper

  
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**ముగిసిన బిజినెస్ ఇంక్యుబేటర్ల స్థాపన నిర్వాహణ కార్యక్రమం**

గండిపేట, మేఘనగూడెం (నూర్చు 18): సీటీఐటీలో మెకానికల్ ఇంజనీరింగ్ విభాగం ఈ నెల 14 నుంచి శనివారం వరకు ఇంక్యుబేటర్ల స్థాపన, నిర్వాహణపై ఒక వారం రోజుల పాటు అధ్యాపకులకు విజ్ఞాన అభివృద్ధి కార్యక్రమాన్ని నిర్వహించారు. ఈ కార్యక్రమంలో వివిధ పరిశ్రమలు, సంస్థల నుంచి పాల్గొన్నారు. ముగింపు కార్యక్రమానికి ముఖ్య అతిథిగా హైదరాబాద్ యూనివర్సిటీలోని నిల - ఎంపిఎంఈకే వెంచర్ సూర్య ప్రకాష్ గౌడ్ హాల్ యొక్క ఈ సందర్భంగా ఆయన మాట్లాడుతూ.. ఎంపిఎంఈ కార్యక్రమాలు, ప్రోత్సాహం గురించి చెప్పారు. సీటీఐటీ ప్రధానకర్త డాక్టర్ పి.వి.ఎస్.రావు ఇంజనీరింగ్ విభాగధ్యక్షుడి ప్రధానకర్త పి. ప్రధానకర్త ఇంజనీరింగ్ విభాగంలో ఉరుగుతున్న వివిధ ఇంక్యుబేషన్



గురించి వివరించారు. ఈ కార్యక్రమానికి హాజరైన వారు వ్యాపార ఇంక్యుబేటర్లను స్థాపించడానికి అవసరమైన నైపుణ్యాలు, పరిష్కారాన్ని తెలుసుకున్నారు. తెలిపారు. ఈ కార్యక్రమంలో డాక్టర్ పి.వి.ఎస్.రావు సందర్భ ఉపన్యాసం ప్రసాదం పాల్గొన్నారు.

**Fig: Valedictory of FDP in news paper**

**Objectives**

- Opportunities & Challenges for Innovators and Innovative Businesses
- Institution as Incubator for promoting Innovation & Entrepreneurship
- Creating Business Incubators for Start-ups
- Managing Business Incubators
- Role of Stakeholders in Success of Business Incubators
- Business Networks through Incubators
- Financing Innovative Businesses
- Policies & Programmes for promotion of Business Incubators

*(Signature)*  
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# Brochure

## ABOUT THE WORKSHOP

Incubators assist startups by providing an integrated package of work space, shared office services, access to specialized equipment and machinery along with value added services like fund raising, legal services, business planning, technical assistance and networking support.

## TOPICS

- ◆ SSI Promotion through Skill Development
- ◆ Government Schemes and Programmes to set-up Incubation Centres & Financing Innovative Businesses
- ◆ Characteristics, Structure and Establishment of Business Incubator
- ◆ Managing Incubators: Techno-managerial services through Mentoring and networking
- ◆ Introduction to IPR, Role of Intellectual Property Facilitation Centre in promoting innovation
- ◆ Incubation as Incubator to promote innovative Businesses
- ◆ Managing Incubators: Incubation Policies, Services
- ◆ Managing Incubators: Techno-managerial services through Mentoring and networking & Partnerships
- ◆ Cluster Development Approach and Promoting Innovation in Clusters

## RESOURCE PERSONS

The sessions will be handled by experts from academia, research organizations and industry in the subject area.

## ELIGIBILITY

The faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Technicians / Participants from Industry etc.) and staff of host institutions

## Address for Correspondence:

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## Chief Patron

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Patron  
Dr. P. Ravinder Reddy, Principal, CBIT,  
Convener  
Dr. P. Prabhakar Reddy, Professor & Head,  
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Mobile: 6304508984

## Advisory Members

Prof. Umakanta Choudhary, Director I & J, CBIT  
Prof. Sreenivasa Sharma, Director - SAP, CBIT  
Prof. A. D. Sarma, Director - R&D, CBIT  
Prof. K. Krishna Veni, Director - Academics, CBIT  
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Prof. N. V. Koteswara Rao, Director IQAC, CBIT  
Dr. N. L. N. Reddy, Director - CDC, CBIT  
Ms. Swarna, IPFC  
Mr. Surya Prakash Goud, ni -meme

## Organizing Committee

Dr. Swamyaram, Assoc. Prof., Mathematics  
Dr. K. Sudarshan Reddy, Asst. Prof. ECE  
Dr. N. Viswanth Gowri, Asst. Prof. EEE  
Dr. V. Aruna, Asst. Prof. Biotechnology  
Sri P. Srinivasa Reddy, Asst. Prof. CED  
Sri P. Surender Reddy, Asst. Prof. MED  
Sri B. Satish, Asst. Prof. CSE  
Sri U. Sai Ram, Asst. Prof. IT  
Sri M. Ramachander, Asst. Prof. MCA  
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## Chaitanya Bharathi Institute of Technology (A)

(Affiliated to Utkalika University & Approved by AICTE, Accredited by  
NBA-AICTE, NAAC-A GC, ISO 9001:2015 certified Institute)

Kokapet (V), Gandipet (M), Hyderabad, Telangana-500075  
Website: <http://www.cbizar.ac.in>

## FACULTY DEVELOPMENT PROGRAMME

On  
Establishment & Management of Business  
Incubators  
(14-18 March 2023)

## SPONSORED BY ni-meme



Organized by  
Entrepreneurship Development Cell, CBIT



Entrepreneur 'rising' ideas

## ABOUT THE INSTITUTE

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 9 UG and 10 PG Programmes. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programmes are accredited by NBA in the year 1998, 2004, 2008, 2013, 2017, 2022 and Few PG Programmes have been accredited by NBA in 2020. The Institute is accredited by NAAC with CGPA of 3.11 out seven point scale as 'A' grade in 2017 for five years. CBIT ranked 366 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The College Campus is spread across 50 acres. Total research grants received from various funding agencies is about Rs.6.5 Crores and Consultancy works carried out are of worth Rs. 25 Crore.

## About Entrepreneurship Development Cell

Entrepreneurship Development Cell (EDC), CBIT, is a student coordinated club supervised by experienced faculty members. The motto of the club is Entrepreneur 'rising' ideas. The club has a vision to pave a path towards 'Entrepreneurial India'. The Institute aims to groom and support all students with entrepreneurial interests and start up ideas. CBIT owes a lot to the spirit of entrepreneurship as some of the founder members of the Institute were entrepreneurs themselves. We have had numerous successful entrepreneurs among our students.

As part of this, several entrepreneurship awareness camps, seminars, guest lectures, conferences and faculty development programmes etc. were organized. It also involves its students in organizing various events so that students are equipped and learn various skills pertaining to planning, execution, leadership, communication and organizing.

EDC, CBIT strives to improve continuously based on the emerging trends and need for budding entrepreneurs by organizing wide variety of entrepreneurship related events

for infusing awareness and required knowledge, skills and attitude so that the young minds steer their endeavours towards cultivating an entrepreneur for the welfare and well-being of all human beings in the society and Nation.

## GUIDELINES

- The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions
- Session time will be from 10 AM to 5:00 PM
- Total number of participants is strictly 30
- Eligible participants will be selected based on first come
- first serve basis and will be intimated by e-mail only.
- Lunch will be provided during the course.
- No Accommodation would be provided.
- No TA/DA shall be provided for the participants.
- Coordinators decision will be final regarding the selection of participants.
- Certificate will be issued by MSME and CBIT.

## No Registration Fee

## Registration Link

<https://docs.google.com/forms/d/6t1FALpQL8cKs-TA5W8Jqz2118u5tgePA-VYUJH98-y7edRSVNOYr000w/view/form>



44  
100%

FACULTY DEVELOPMENT PROGRAMME  
On  
Establishment & Management of Business Incubators  
(14-18 March 2023)  
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## Registration Form

1. Name: .....
2. Designation: .....
3. Organization: .....
4. Address: .....
5. Mobile No. ....
6. Email-id: .....

Signature of the  
Sponsoring Authority

Signature  
Participants

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**PROFESSOR & HEAD**  
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## SCHEDULE

Session/Time	Theme
<b>14 March 2023</b>	
Session 1 9.30 hrs to 11.00 hrs	Registration & Inauguration Promotion of Innovation through Business Incubators
11.00 hrs to 11.30 hrs	Tea Break
Session 2 11.30 hrs to 13.00 hrs	SME Promotion through Skill Development
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4 14.00 hrs to 17.30 hrs	Presentation/ Experience sharing by participants
<b>15 March 2023</b>	
Session 1 9.30 hrs to 11.00 hrs	Introduction to IPR
11.00 hrs to 11.30 hrs	Tea Break
Session 2 11.30 hrs to 13.00 hrs	Role of Intellectual Property Facilitation Centre in promoting Innovation
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4 14.00 hrs to 17.30 hrs	Institution as Incubator to promote Innovative Businesses Managing Incubators: Incubation Policies, Services & Partnerships
<b>16 March 2023</b>	
Session 1 9.30 hrs to 11.00 hrs	Government Schemes and Programmes to set-up Incubation Centers & Financing Innovative Businesses
11.00 hrs to 11.30 hrs	Tea Break
Session 2 11.30 hrs to 13.00 hrs	Government Schemes and Programmes to set-up Incubation Centers & Financing Innovative Businesses
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4 14.00 hrs to 17.30 hrs	Characteristics, Structure and Establishment of Business Incubator
<b>17 March 2023</b>	
Session 1 9.30 hrs to 11.00 hrs	Managing Incubators: Techno-managerial services through Mentoring and networking
11.00 hrs to 11.30 hrs	Tea Break
Session 2 11.30 hrs to 13.00 hrs	Case Study on Managing Business Incubators
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4 14.00 hrs to 17.30 hrs	Cluster Development Approach and Promoting Innovation in Cluster
<b>18 March 2023</b>	
Session 1 & 2 9.30 hrs to 13.00 hrs	Project Feasibility & Preparation of Business Plan
13.00 hrs to 14.00 hrs	Lunch
Session 3 14.00 hrs to 15.30 hrs	Presentation by Participants
Session 4	Feedback & Conclusion

  
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16.00 hrs to 17.30 hrs

**FDP on Establishment & Management of Business Incubators- SCHEDULE**

Session/Time	Theme
<b>14 March 2023</b>	
Session 1-9.30 hrs to 11.00 hrs	Registration & Inauguration ,Promotion of Innovation through Business Incubators
11.00 hrs to 11.30 hrs	Tea Break
Session 2- 11.30 hrs to 13.00 hrs	SME Promotion through Skill Development
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4 - 14.00 hrs to 17.30 hrs	Presentation/ Experience sharing by participants
<b>15 March 2023</b>	
Session 1 -9.30 hrs to 11.00 hrs	Introduction to IPR
11.00 hrs to 11.30 hrs	Tea Break
Session 2-11.30 hrs to 13.00 hrs	Role of Intellectual Property Facilitation Centre in promoting Innovation
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4	Institution as Incubator to promote Innovative Businesses
14.00 hrs to 17.30 hrs	Managing Incubators: Incubation Policies, Services & Partnerships
<b>16 March 2023</b>	
Session 1-9.30 hrs to 11.00 hrs	Government Schemes and Programmes to set-up Incubation Centers & Financing Innovative Businesses
11.00 hrs to 11.30 hrs	Tea Break
Session 2- 11.30 hrs to 13.00 hrs	Government Schemes and Programmes to set-up Incubation Centers & Financing Innovative Businesses
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4 - 14.00 hrs to 17.30 hrs	Characteristics, Structure and Establishment of Business Incubator
<b>17 March 2023</b>	
Session 1 - 9.30 hrs to 11.00 hrs	Managing Incubators: Techno-managerial services through Mentoring and networking
11.00 hrs to 11.30 hrs	Tea Break
Session 2 - 11.30 hrs to 13.00 hrs	Case Study on Managing Business Incubators
13.00 hrs to 14.00 hrs	Lunch
Session 3 & 4 - 14.00 hrs to 17.30 hrs	Cluster Development Approach and Promoting Innovation in Cluster
<b>18 March 2023</b>	
Session 1 & 2 - 9.30 hrs to 13.00 hrs	Project Feasibility & Preparation of Business Plan
13.00 hrs to 14.00 hrs	Lunch
Session 3 - 14.00 hrs to 15.30 hrs	Presentation by Participants
Session 4 - 16.00 hrs to 17.30 hrs	Feedback & Conclusion

**PROFESSOR & HEAD**  
 Department of Mechanical Engineering  
 Jyoti's Institute of Technology (A)  
 Jyoti's Campus, Hyderabad-500 075, Telangana



**Day 1- 14-03-2023**

**Session 1: Registration & Inauguration, Promotion of Innovation through Business Incubators**

The FDP started with an Inaugural function.



Fig: Inaugural address by Principal, CBIT

Principal Dr P.Ravinder Reddy presided the function. Principal talked about the need of innovation and incubation for the development of the country. Dr U.K. Choudhary, Director I & I talked about the entrepreneurial and incubation facilities in the college. The chief guest Gaddam Sudarshan, ni-msme explained about the facilities provided by ni-msme and government of India to promote incubation. Dr.P. Prabhakar reddy, Chairman, EDC explained the entrepreneurial activities going on in the college. The session ended with a vote of thanks.

Sri Gaddam Sudarshan explained about the innovation and promotion of innovation through Business Incubators.

  
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Laxdipet, Hyderabad-500 075, Telangana



## Session 2 SME Promotion through Skill Development

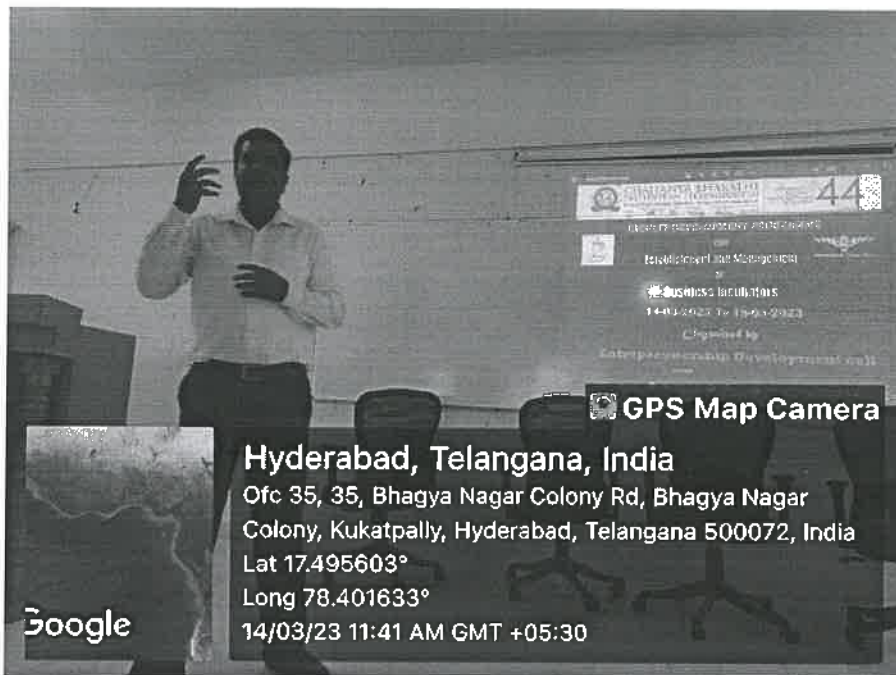


Fig: Speaker Sri Gaddam Sudarshan during the session

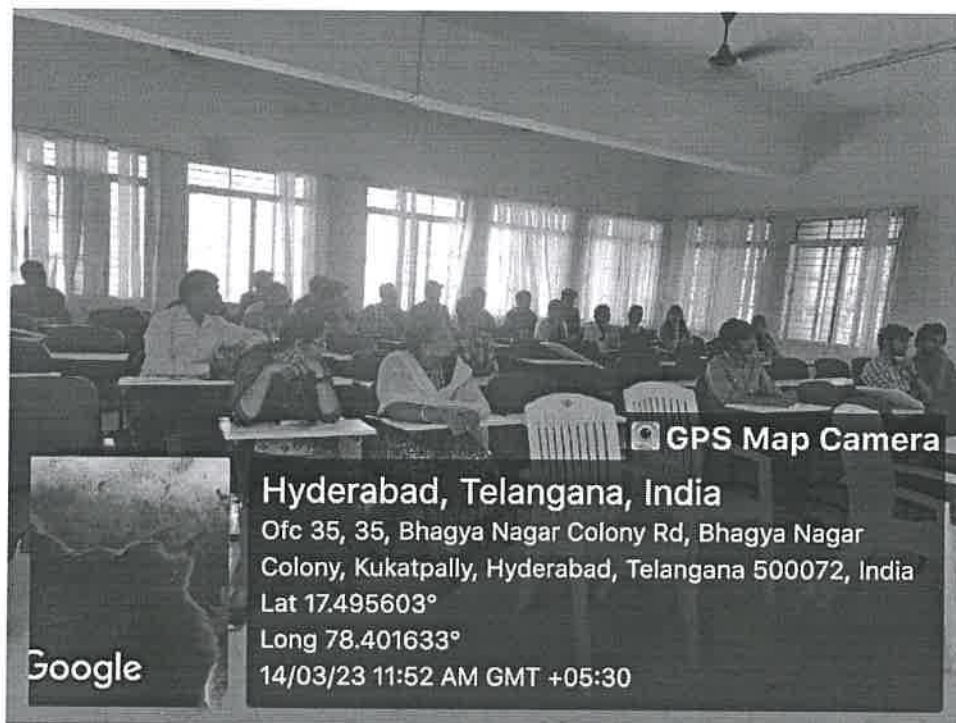


Fig: Participants during the session

  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Sri Gaddam Sudarshan Institute of Technology (A)  
Kukatpally, Hyderabad-500 075. Telangana

### Session 3 & 4 Presentation/ Experience sharing by participants

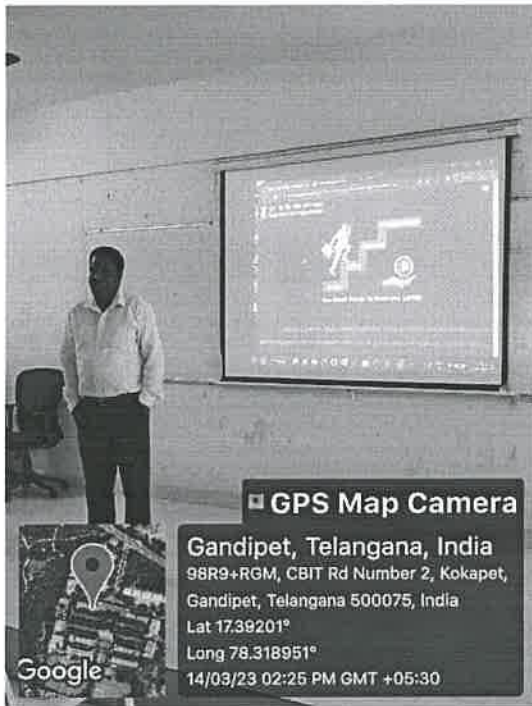


Fig: Speaker Sri Gaddam Sudarshan during the session

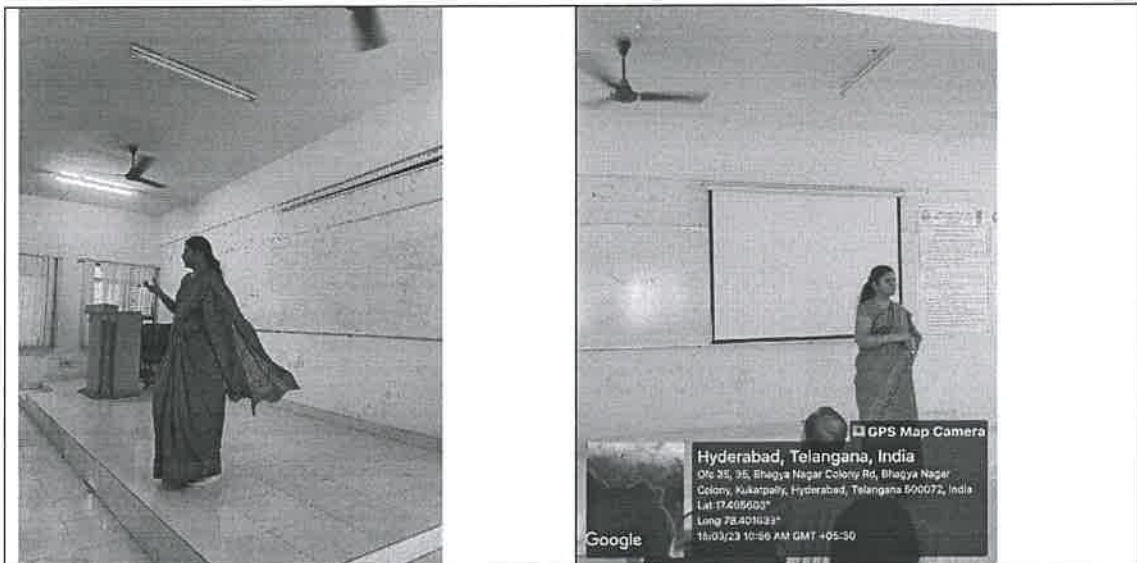


Fig: Participants during the session

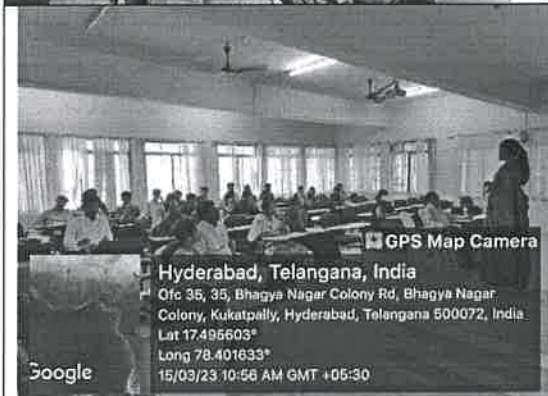
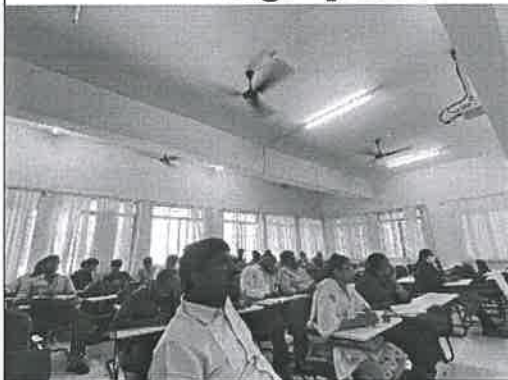
*Ravi*  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Sri Jayas Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana

**Day 2 - 15 March 2023**

**Session 1 & 2 Introduction to IPR, Role of Intellectual Property Facilitation Centre in promoting Innovation.**



**Fig: Speaker Swapna during the session**



**Fig: Participants during the session**

*Handwritten signature in red ink.*

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Sri Satya Bharathi Institute of Technology (A)  
Madhapet, Hyderabad-500 075. Telangana

## Session 3 & 4 Institution as Incubator to promote Innovative Businesses

### Managing Incubators: Incubation Policies, Services & Partnerships

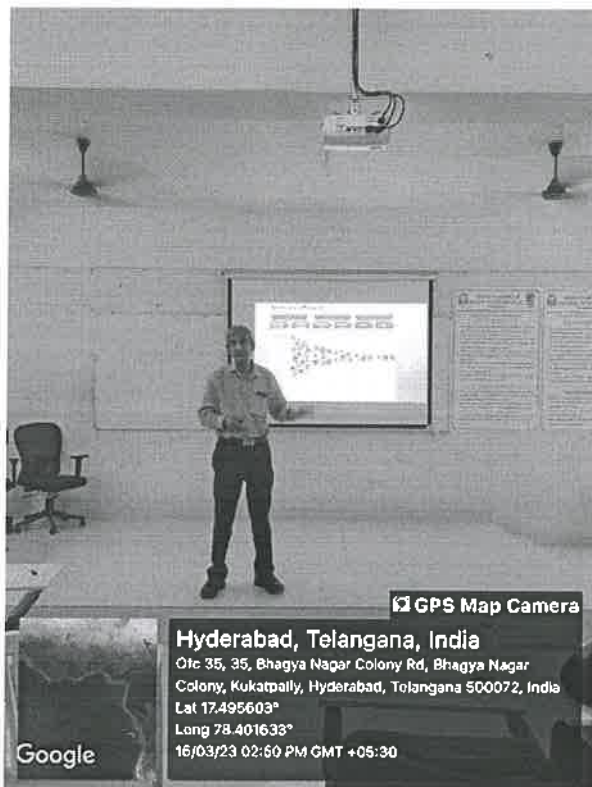


Fig: Speaker Dr U.K.Choudhar during the session

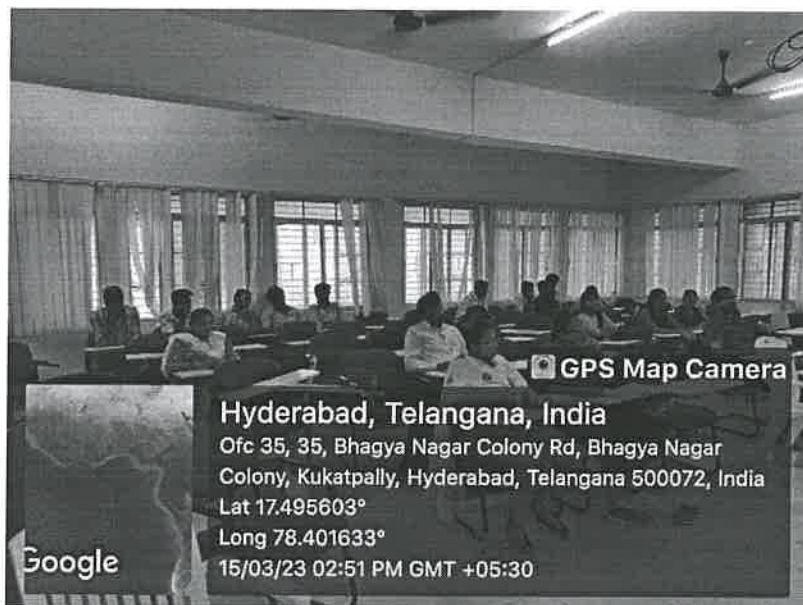


Fig: Participants during the session

*Prof. Dr. U.K. Choudhar*  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Anjya Bharathi Institute of Technology (A)  
Mipet, Hyderabad-500 075, Telangana



**Day 3 16 March 2023**

**Session 1 & 2 “Government Schemes and Programmes to set-up Incubation Centers & Financing Innovative Businesses”**

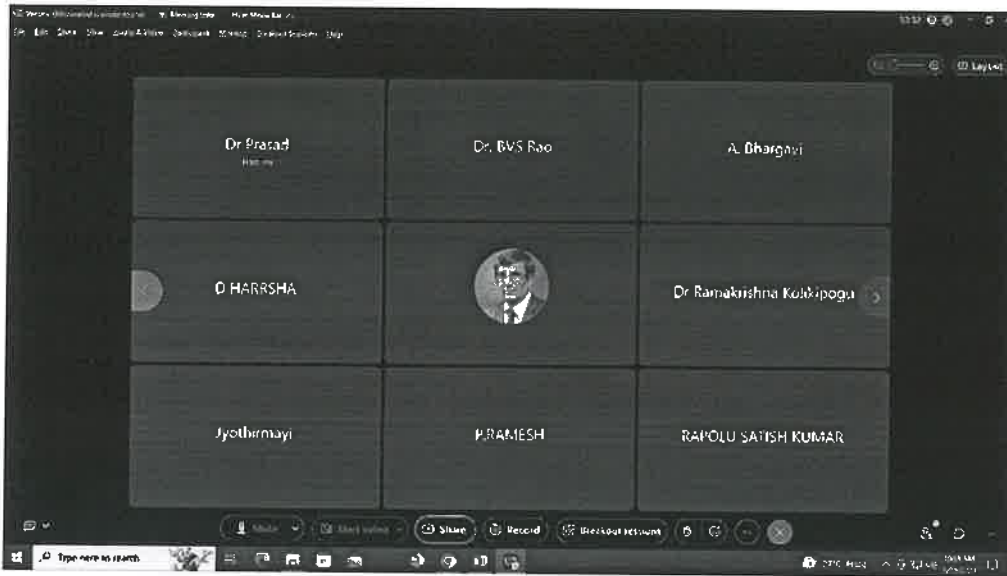
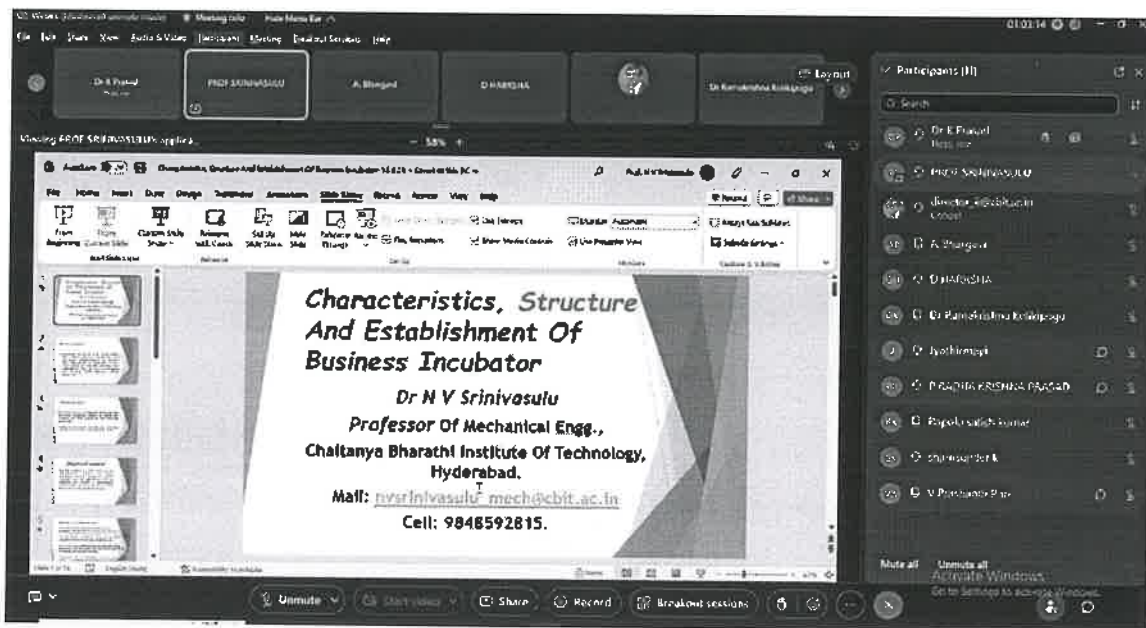


Fig: Speaker Dr. BVS Rao with Participants during the session

**Session 3 & 4**

**Characteristics, Structure and Establishment of Business Incubator**



*NVS*  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana



Fig: Slide during the session

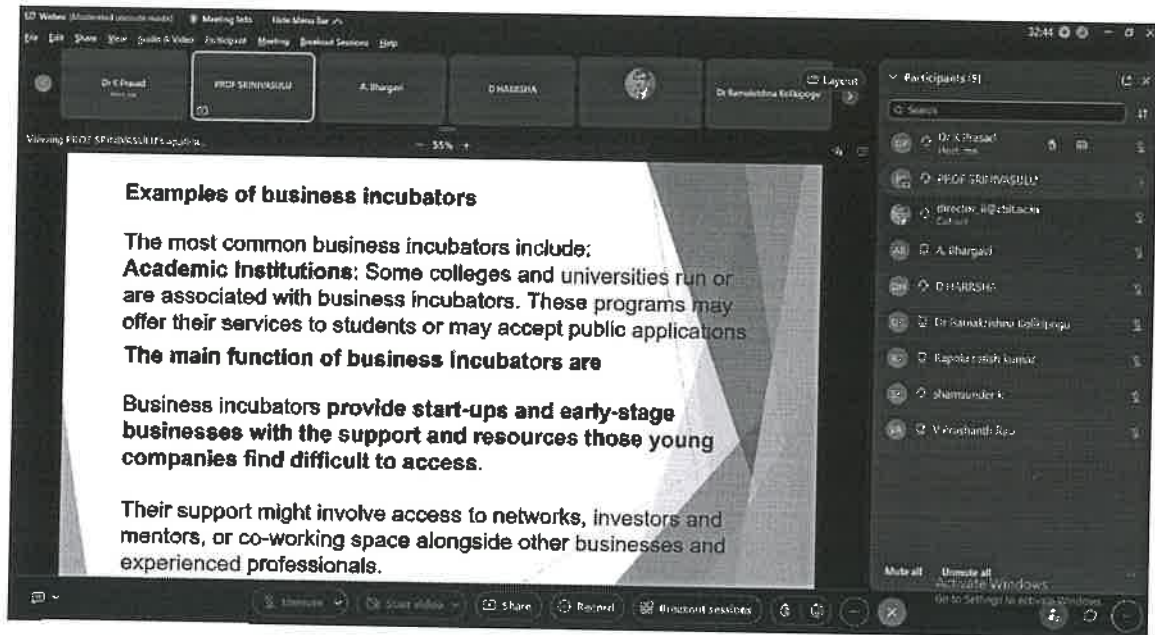


Fig: Slide during the session

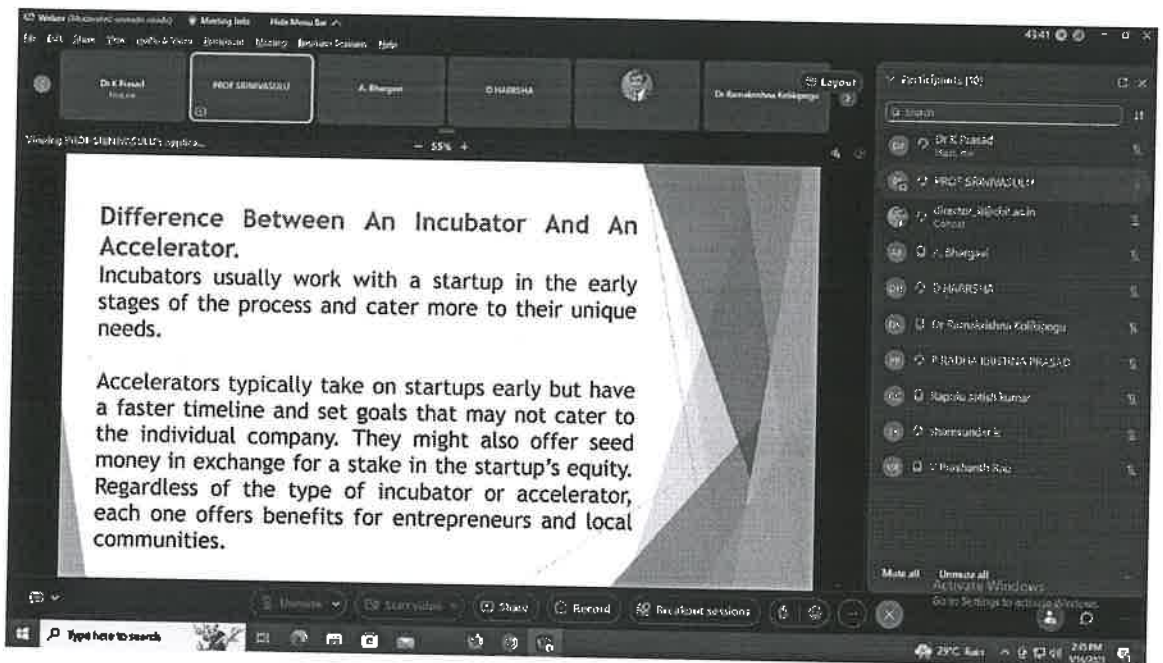


Fig: Slide during the session

*Ravi*  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Jaitanya Bharathi Institute of Technology (A)  
Bandipet, Hyderabad-500 075, Telangana



Fig: Speaker Dr. N.V.Srinivasulu with Participants during the session

**Day 4 17 March 2023**

**Session 1 & 2 Managing Incubators: Techno-managerial services through Mentoring and networking, Case Study on Managing Business Incubators**



Fig: Participants during the session

*R. V. R.*  
**PROFESSOR & HEAD**  
 Department of Mechanical Engineering  
 Gitanya Bharathi Institute of Technology (A)  
 Gandipet, Hyderabad-500 075, Telangana

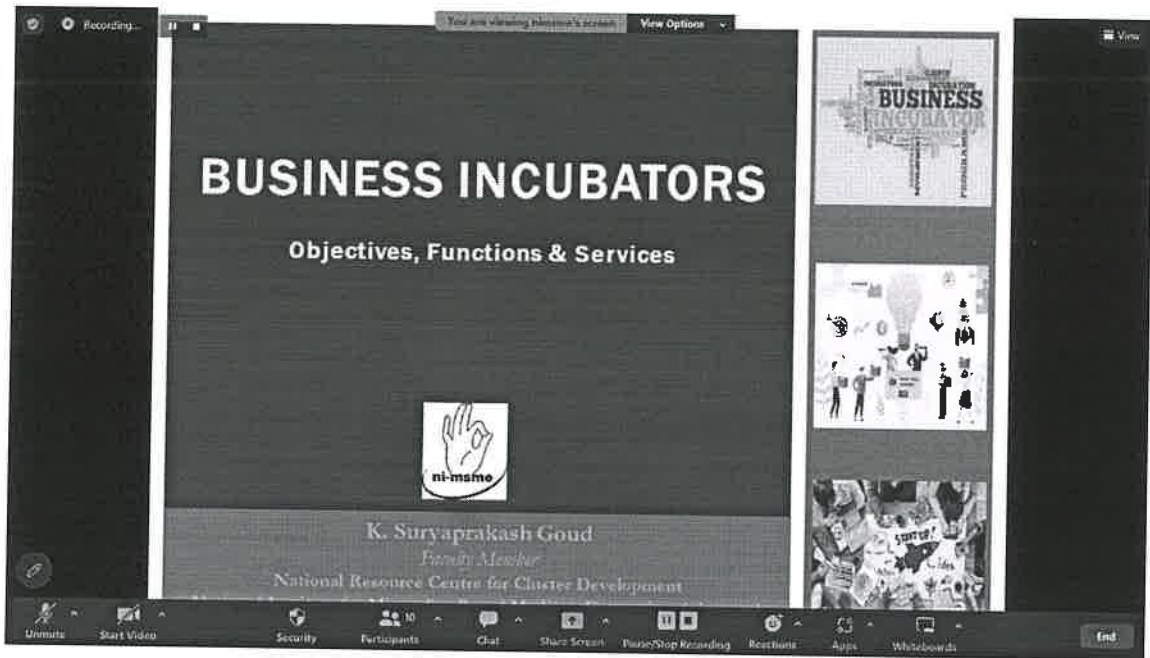


Fig: Slide during the session

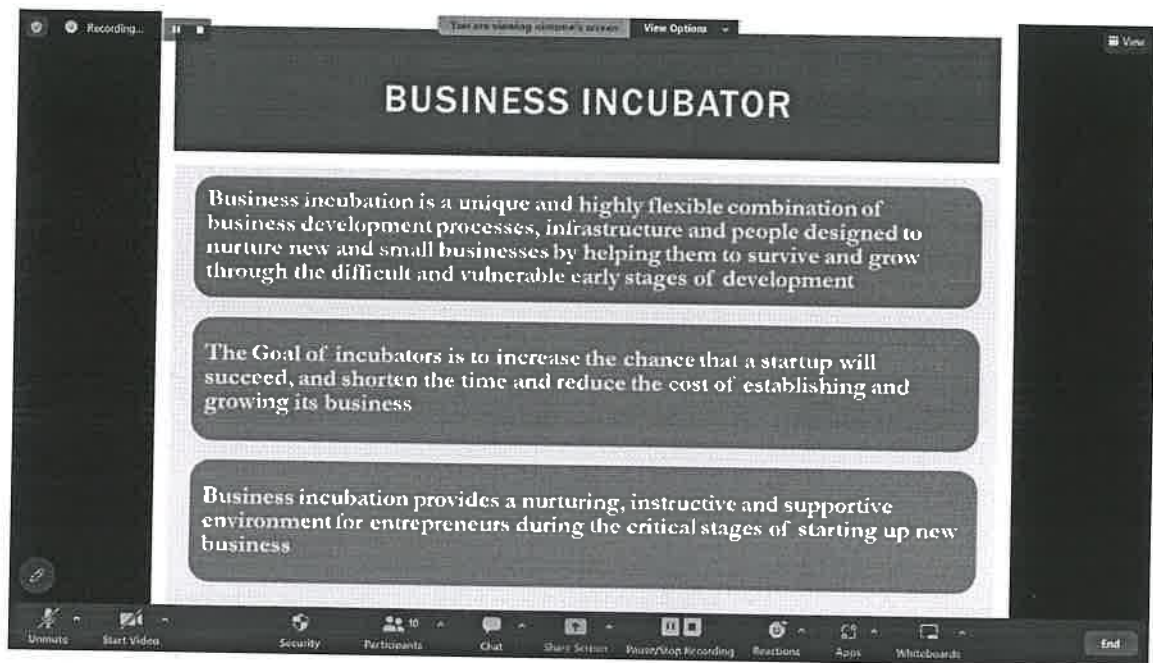


Fig: Slide during the session

*Reddy*  
**PROFESSOR & HEAD**  
 Department of Mechanical Engineering  
 Jyoti Bharathi Institute of Technology (A)  
 Hyderabad-500 075, Telangana



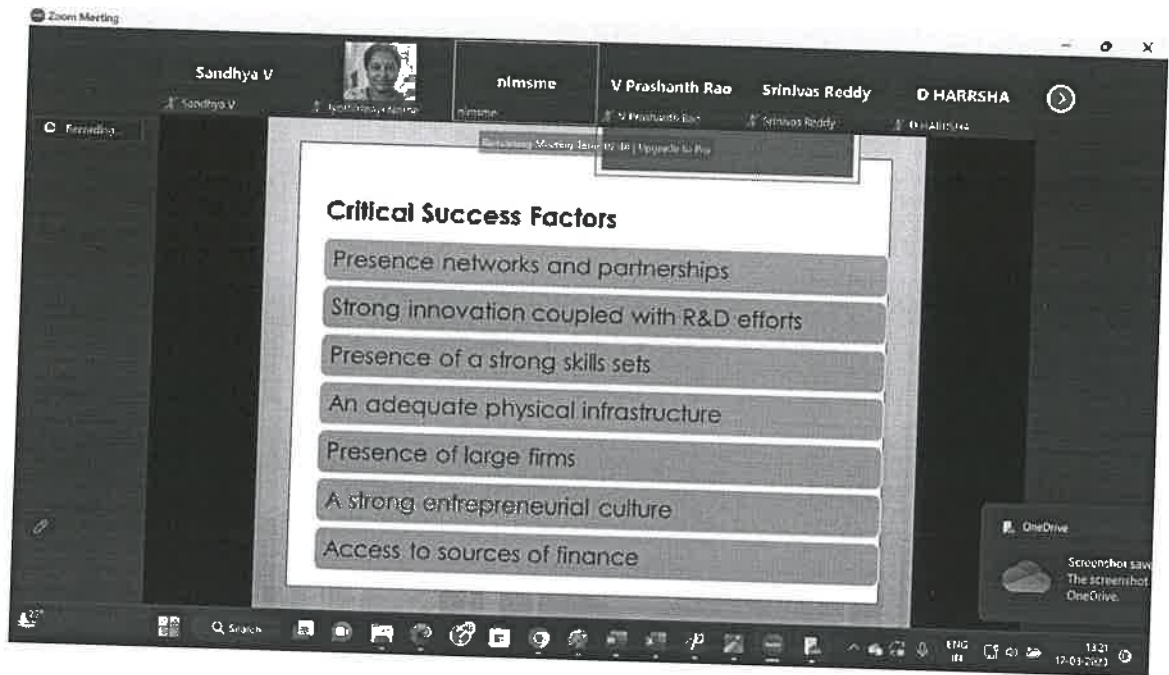


Fig: Slide during the session

### Session 3 & 4 Cluster Development Approach and Promoting Innovation in Cluster



Fig: Slide during the session

*[Handwritten signature]*

**PROFESSOR & HEAD**  
 Department of Mechanical Engineering  
 Jaijanya Bharathi Institute of Technology (A)  
 Gandipet, Hyderabad-500 075, Telangana

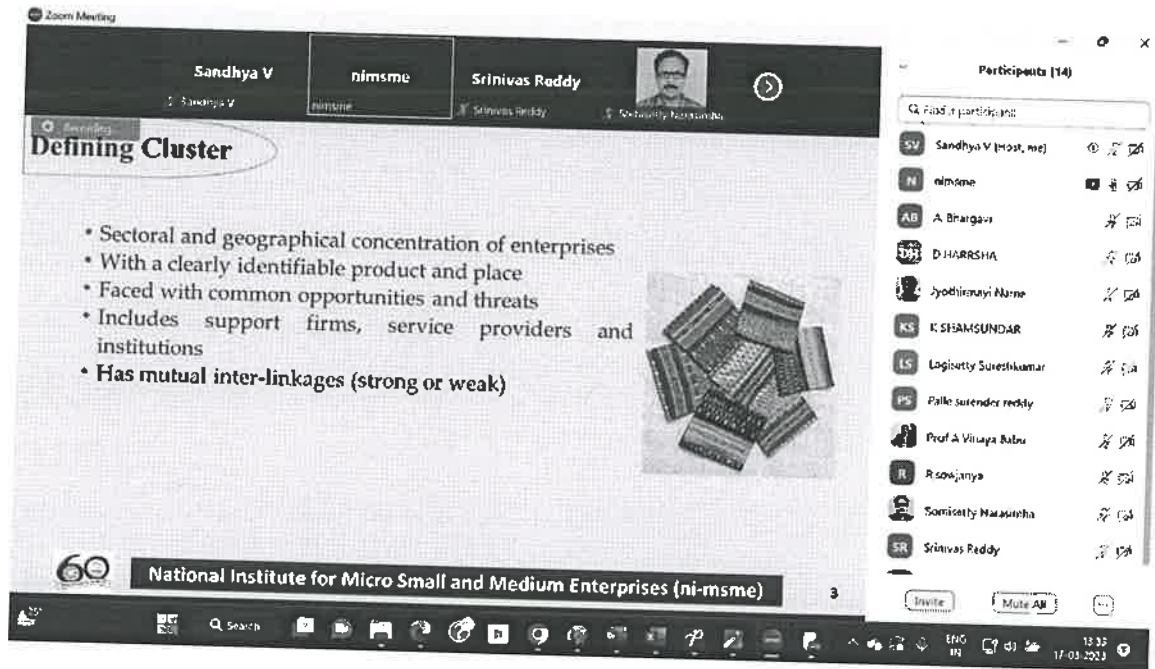


Fig: Slide during the session

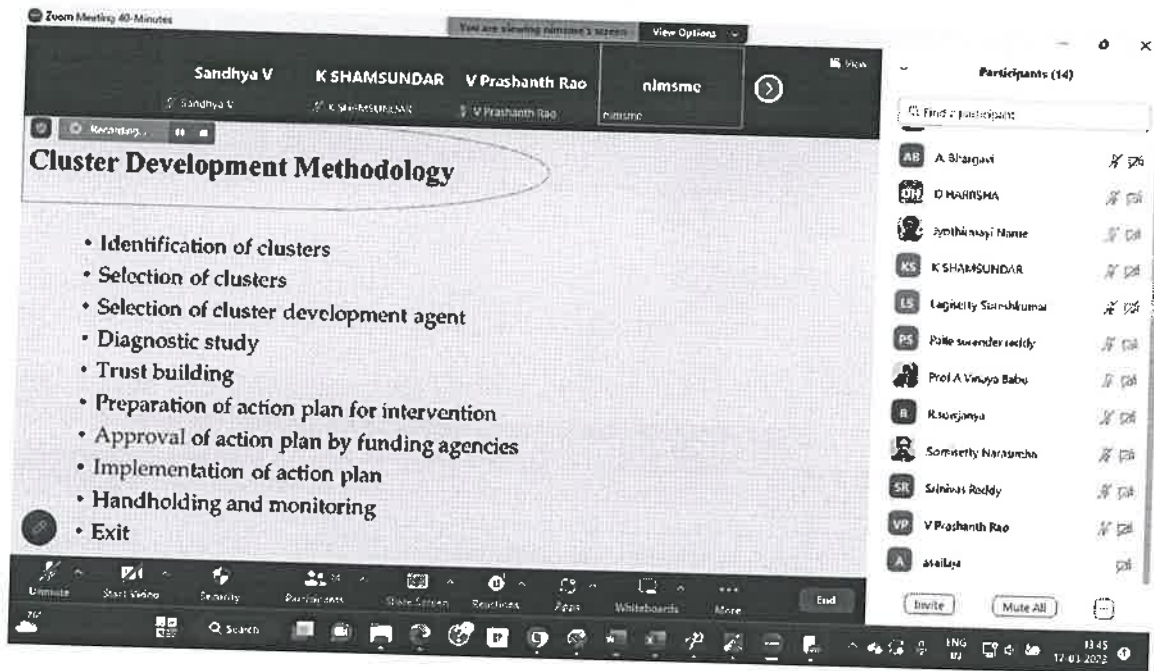


Fig: Slide during the session

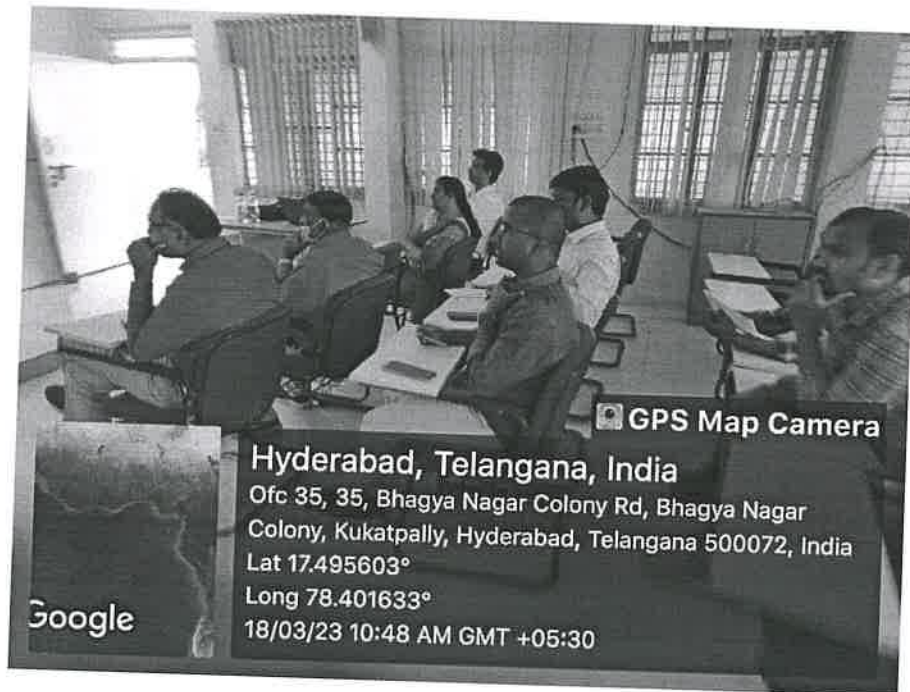
*Prof. A. Vinaya Babu*

**PROFESSOR & HEAD**  
 Department of Mechanical Engineering  
 Bharathi Institute of Technology (A)  
 Hyderabad-500 075, Telangana

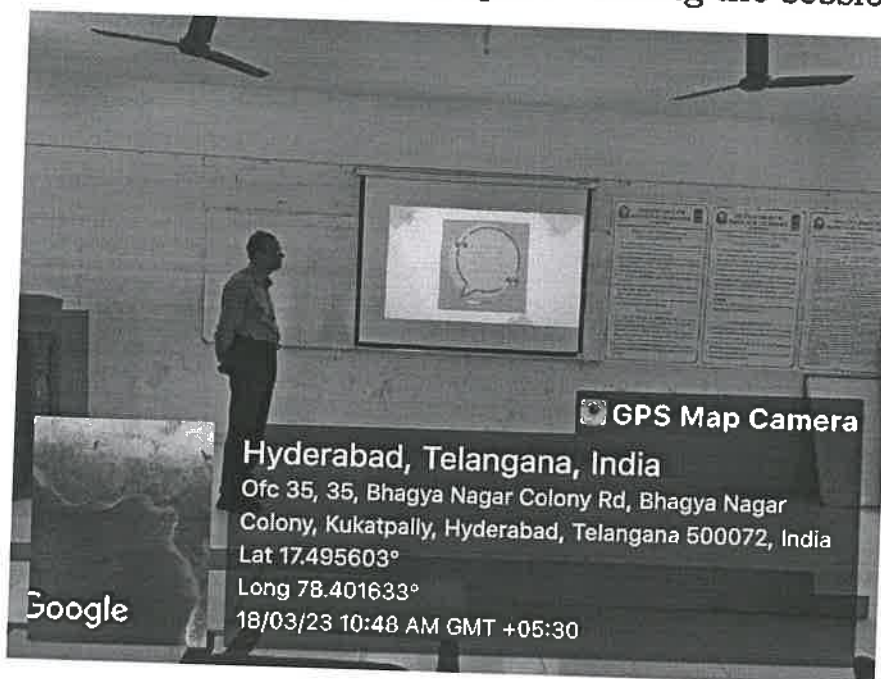


**Day 5 18 March 2023**

**Session 1 & 2 Project Feasibility & Preparation of Business Plan**



**Fig: Participants during the session**



**Fig: Speaker Dr P.Prabhakar Reddy during the session**

*Prabhakar Reddy*

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075. Telangana

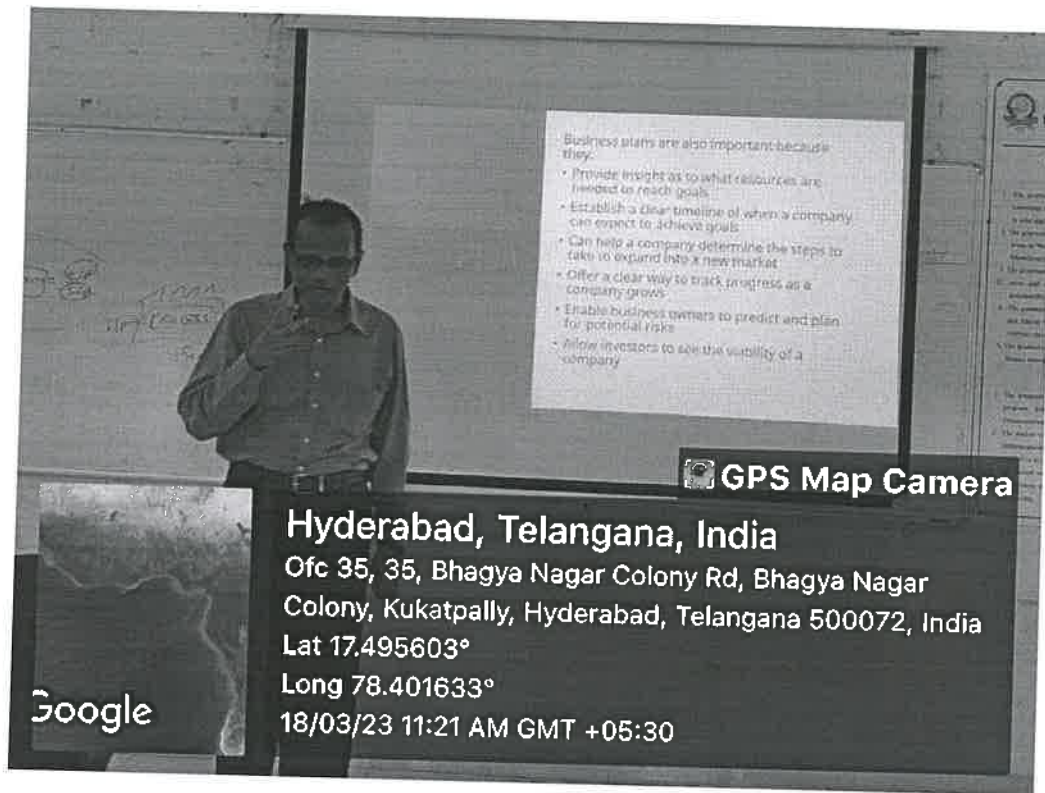


Fig: Speaker Dr P.Prabhakar Reddy during the session

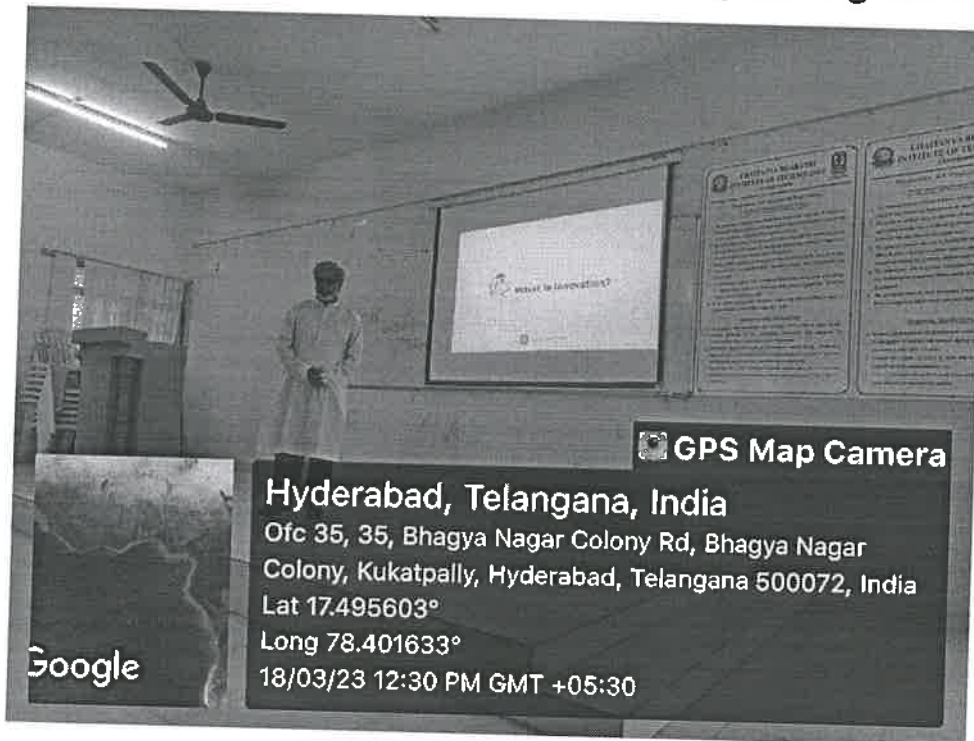


Fig: Speaker during the session

*Reddy*  
 PROFESSOR & HEAD  
 Department of Mechanical Engineering  
 Bharathi Institute of Technology (A)  
 Hyderabad-500 075, Telangana

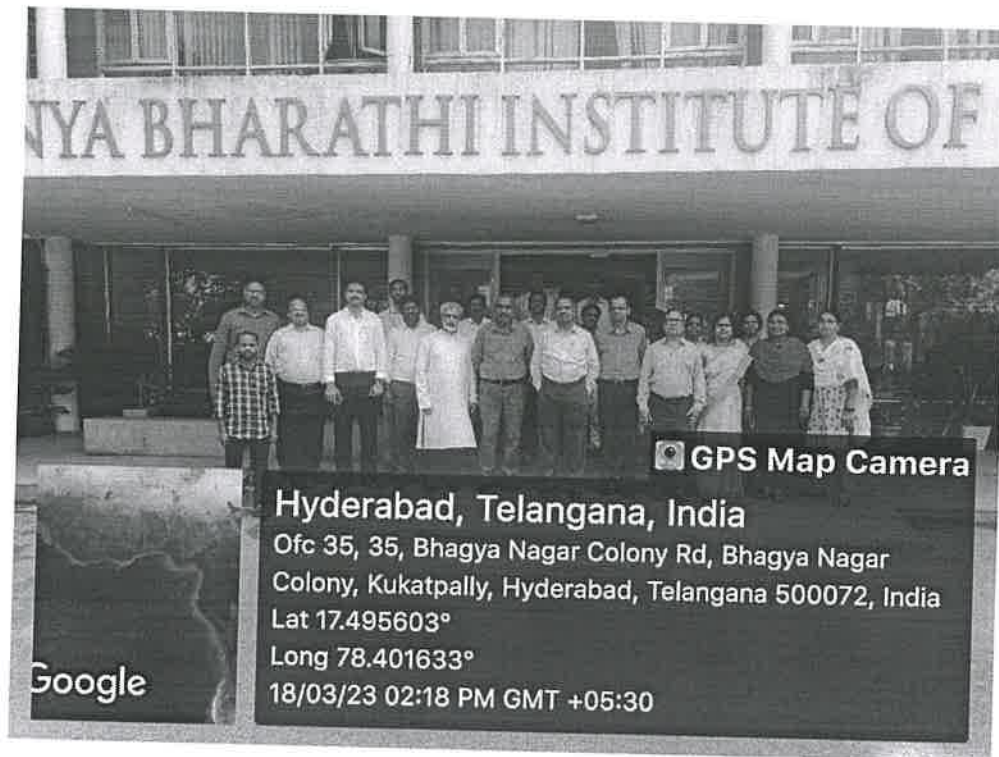


Fig: Photo of the FDP Participants

**Session 3 & 4 Presentation by Participants, Feedback & Conclusion**

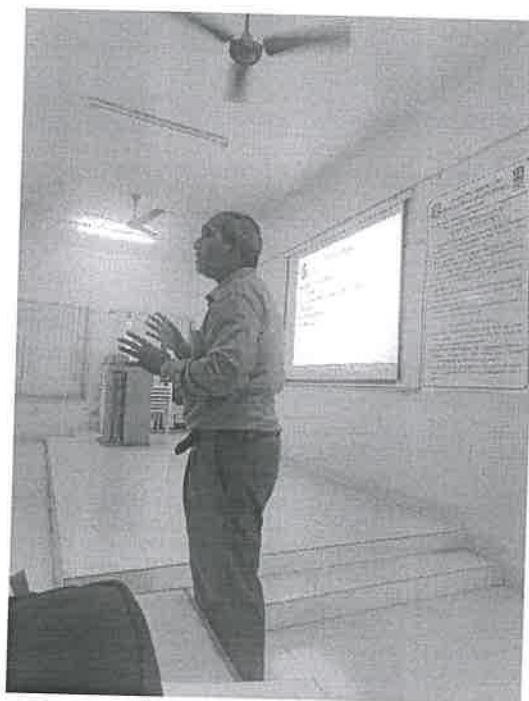


Fig: Speaker K. Surya Prakash Goud during the session

*Prash*  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
JNTU Hyderabad Institute of Technology (A)  
Madhapet, Hyderabad-500 075. Telangana





Fig: Speaker during the session

#### Outcomes

- Appreciate significance of Incubators in promotion of innovation & entrepreneurship
- Policies & Programmes for promotion of Business Incubators
- Grass root innovations, issues, and challenges
- Role of academic institutions in successful operation of Business Incubators
- Develop business networks for commercialization of innovations

**No. of Participants: 25**

*R. S. S.*

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Jaya Bharathi Institute of Technology (A)  
Hyderabad-500 075, Telangana

## ABOUT THE WORKSHOP

Incubators assists startups by providing an integrated package of work space, shared office services, access to specialized equipment and machinery along with value added services like fund raising, legal services, business planning, technical assistance and networking support.

### TOPICS

- ❖ SME Promotion through Skill Development
- ❖ Government Schemes and Programmes to set-up Incubation Centres & Financing Innovative Businesses
- ❖ Characteristics, Structure and Establishment of Business Incubator
- ❖ Managing Incubators: Techno-managerial services through Mentoring and networking
- ❖ Introduction to IPR, Role of Intellectual Property Facilitation Centre in promoting Innovation
- ❖ Institution as Incubator to promote Innovative Businesses
- ❖ Managing Incubators: Incubation Policies, Services
- ❖ Managing Incubators: Techno-managerial services through Mentoring and networking & Partnerships
- ❖ Cluster Development Approach and Promoting Innovation in Cluster

### RESOURCE PERSONS

The sessions will be handled by experts from academia, research organizations and industry in the subject area.

### ELIGIBILITY

The faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry (Bureaucrats / Technicians / Participants from Industry etc.) and staff of host institutions

### Address for Correspondence:

Convenor,  
Department of Mechanical Engineering,  
Chaitanya Bharathi Institute of Technology(A),  
Kokapet (V), Gandipet (M),  
Chaitanya Bharathi (PO), Hyderabad-500075  
Email id: prabhakarreddy\_mech@cbit.ac.in

### Chief Patron

Sci. N. Subash , President, CBIT

### Patron

Dr. P. Ravinder Reddy, Principal, CBIT.

### Convenor

Dr. P.Prabhakar Reddy, Professor & Head,  
Department of Mechanical Engineering, CBIT

### Coordinator

Ms V.Sandhya, Assistant Professor,  
Department of Mechanical Engineering, CBIT  
Mobile: 9701540189

Dr. K.Prasad Babu, Assistant Professor,  
Department of Chemical Engineering, CBIT  
Mobile:6304598984

### Advisory Members

Prof. Umakanta Choudhary, Director I & I, CBIT  
Prof. Sreenivasa Sharma, Director - SAP, CBIT  
Prof. A D Sarma , Director - R&D, CBIT .  
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Dr. N. L. N Reddy, Director – CDC, CBIT  
Ms. Swapna, IPFC  
Mr. Surya Prakash Goud, ni -msme

### Organizing Committee

Dr. Swatmaram, Assoc. Prof., Mathematics  
Dr K.Sudarshan Reddy, Asst. Prof, ECE  
Dr. N.Vasantha Gowri, Asst. Prof, EEE  
Dr. V.Aruna, Asst. Prof, Biotechnology  
Sri P.Srinivasa Reddy, Asst. Prof, CED  
Sri P.Surender Reddy, Asst. Prof, MED  
Sri B.Satish, Asst. Prof, CSE  
Sri U.Sai Ram, Asst. Prof, IT  
Sri M.Ramachander, Asst. Prof, MCA  
Smt B.Lavanya, Asst. Prof, SMS



# Chaitanya Bharathi Institute of Technology(A)

(Affiliated to Osmania University & Approved by AICTE, Accredited by  
NBA-AICTE, NAAC-UGC, ISO 9001-2015 certified Institute)

Kokapet(V), Gandipet(M), Hyderabad, Telangana-500075  
Website: <http://www.cbit.ac.in>

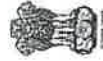
## FACULTY DEVELOPMENT PROGRAMME

On

Establishment & Management of Business  
Incubators  
(14-18 March 2023)

## SPONSORED BY

ni-msme



Organized by

Entrepreneurship Development Cell, CBIT



Entrepreneur "rising" Ideas



#### **ABOUT THE INSTITUTE**

Chaitanya Bharathi Institute of Technology is one of the premier Engineering Colleges in the self-financing category in the state of Telangana established in the year 1979. The college offers 9 UG and 10 PG Programmes. The Institute has become Autonomous under UGC w.e.f. 2013-14. UG Programmes are accredited by NBA in the year 1998, 2004, 2008, 2013, 2017, 2022 and Five PG Programmes have been accredited by NBA in 2020. The Institute is accredited by NAAC with CGPA of 3.11 on seven point scale at 'A' grade in 2017 for five years. CBIT ranked 166 in Engineering Category under National Institutional Ranking Framework (NIRF), Govt. of India, MHRD. The College Campus is spread across 50 acres. Total research grants received from various funding agencies is about Rs.6.5 Crores and Consultancy works carried out are of worth Rs. 25 Crore.

#### **About Entrepreneurship Development Cell**

Entrepreneurship Development Cell (EDC), CBIT, is a student coordinated club supervised by experienced faculty members. The motto of the club is Entrepreneur 'rising' ideas. The club has a vision to pave a path towards 'Entrepreneurial India'. The institute aims to groom and support all students with entrepreneurial interests and start up ideas. CBIT owes a lot to the spirit of entrepreneurship as some of the founder members of the institute were entrepreneurs themselves. We have/ had numerous successful entrepreneurs among our students.

As part of this, several entrepreneurship awareness camps, seminars, guest lectures, conferences and faculty development programmes etc. were organized. It also involves its students in organising various events so that students are exposed and learn various skills pertaining to planning, execution, leadership, communication and organising.

EDC, CBIT strives to improve continuously based on the emerging trends and need for budding entrepreneurs by organising wide variety of entrepreneurship related events

for infusing awareness and required knowledge, skills and attitude so that the young minds steer their endeavours towards culminating as entrepreneurs for the welfare and well-being of all human beings in the society and Nation.

#### **GUIDELINES**

- The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions
- Session time will be from 10 AM to 5:00 PM
- Total number of participants is strictly 30
- Eligible participants will be selected based on first come
- first serve basis and will be intimated by e- mail only.
- Lunch will be provided during the course.
- No Accommodation would be provided.
- No TA/DA shall be provided for the participants.
- Coordinators decision will be final regarding the selection of participants.
- Certificate will be Issued by MSME and CBIT.

#### **No Registration Fee**

#### **Registration Link**

<https://docs.google.com/forms/d/e/1FAIpQLScKz-TAVarJopZlHcuSgcPA-VYEJ8lg88-y7odRSYNYr808w/viewform>



COMMITTED TO  
INNOVATION AND  
EDUCATION  
**44**  
years

#### **FACULTY DEVELOPMENT PROGRAMME**

On

**Establishment & Management of Business Incubators  
(14-18 March 2023)**

**SPONSORED BY  
ni-msme**



#### **Registration Form**

1. Name:.....
2. Designation: .....
3. Organization.....
4. Address: .....
5. Mobile No. ....
6. Email:-id: .....

Signature of the  
Sponsoring Authority

Signature  
Participants

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Campus, Hyderabad-500 075, Telangana

Sno	Trainee Name (as per SSC)	Father Name	Trainee Address	Date of Birth	Gender	E-mail id	Mobile No	Category	Trainees Objective	Highest Education	Aadhar No
1	Dr P.P.Prabhakar Reddy	P.Sanjeewa Reddy	Flat No. 202, H.No.9-4-84/120, Kakitivanagar colony, Golconda Post, Hyderabad -8	11-10-1972	Male	prabhakarreddy_mech@cbit.ac.in	9885468253	OC	To update the knowledge about incubation and schemes offered by msme	PHd	905666360692
2	Dr P.V.R.Ravindra Reddy	P.Papi Reddy	E-306, Sri Mahalaxmi Residency, Upperpalli, Rajendra Nagar, Hyderabad-48	01-06-1971	Male	ravindrareddyvr_mech@cbit.ac.in	9848312096	OC	To update my knowledge	PHD	373737351335
3	B Lavanya	B Sriramulu	c-404 BM Shreya Homes, Pipeline road, Manikonda-Hyd	05.04.1965	Female	lavanya_sama@yahoo.co.in	9703559595	O-BC	To gain indepth knowledge on Business incubators	MBA Finance, B.Ed (Hi)	605872291870
4	R Sowjanya	R Srinivasa Rao	114/7 KPHB Colony Hyderabad	19.03.1997	Female	sowjanyaramiseti964@gmail.com	7893695108	BC-D	To gain indepth knowledge on Business incubators	B Sc Mccs	249061001357
5	Dr BVS Rao	BV Ramana Murthy	#405, Tower 16, Provident Kenworth, Rajendra Nagar	17.06.1967	Male	bvsrao_mech@cbit.ac.in	9290545750	OC	To gain indepth knowledge on Business incubators	PHD	429724485622
6	A Bhargavi	A Swami Goud	114/7 KPHB Colony Hyderabad	21.05.2000	Female	akkalagaribhargavia@gmail.com	8374721616	BC-B	To gain indepth knowledge on Business incubators	B Sc Mccs	415253653965
7	P.Srinivas Reddy	P.Madhusudan Reddy	Department of Civil Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad	28-04-1972	Male	psr.hybd2804@gmail.com	8106200704	OC	To get awareness about establishment and management about business incubators	M.Tech	921615872870
8	K Prasad Babu	K Durgaiah	TRT 81 Vidyanagar, Hyderabad-044	05-05-1987	Male	prasad.ism@gmail.com	6304598984	BC-C	To get awareness about establishment and management about business incubators	PHD	988177684383
10	Rajeev Kumar	Satyanarayan	Hyderabad	03-03-1983	Male	Rajeev.kumar1@mbttech.in	9014243388	Misme start up	Knowledge	Post graduate	283156969431
9	K.Shamsundar	K Shankarjee	2-2-1109/BK/MIG/106, Kamalanilayam, Bhagamberpet, Hyderabad	12-06-1982	Male	shamsunderjee@gmail.com	9394897582	BC-D	To get awareness about establishment and management about business incubators	B tech Mechanical	5433378767570
10	PATHULOTHU RAMESH	PATHULOTHU HANJUMU	Huda Complex Kothapet Saroomagar, Hyderabad	12-06-1994	Male	pathulothuramesh05@gmail.com	6302969119	ST	To get awareness about establishment and management about business incubators	Btech Electrical	510260022742
11	R Satish	R papaiah	Shabhanawa Township, Anand Nagar, Bandlaguda, Hyderabad	03-07-1990	Male	satishkumar3790@gmail.com	9705168512	BC-B	To get awareness about establishment and management about business incubators	Btech Electrical	412249960099

Sno	Trainee Name (as per SSC)	Father Name	Trainee-Address	Date of Birth	Gender	E-mail id	Mobile No	Category	Trainees Objective	Highest Education	Aadhar No
12	Dr Y.Nagini	Y.S.N.Murthy	Department of Mechanical Engineering, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad	09-06-1974	Female	ynagini@gmail.com	9885053049	OC	To know about incubation and schemes	PHD	908379442395
13	JYOTHIRMAYI NARNE	N RAVEENDRA BABU	House No: 105 (First Floor), Annamayya Enclave, New MIG colony, BHEL, Hyderabad	21-06-1981	Female	jiyothi.narne@gmail.com	9966006984	OC	To understand the role and administration of a business incubator in entrepreneurship.	M.Tech	401689061975
14	Dr S.Narasimha Kumar	S.Sampath Kumar	Flat No: 102, 13-6-434/B70 ,Satya keerthana residency,Omnagar, Mehdpatnam	01-06-1973	Male	snarasimhakumar_mech@cbit.ac.in	9848349240	OC	To understand the role and administration of a business incubator in entrepreneurship.	PHD	692899966920
15	K.Gangadhar Rao	K. Devadanam	Department of Information Technology, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad	02-04-1979	Male	kgangadhar_ik@cbit.ac.in	9866898894	BC-C	To understand the Patenting process and its use for incubation	M.Tech	556261190853
16	Dr.T.S.Poomachandrika	T.B.Santa Murthy	School of Management studies, Chaitanya Bharathi Institute of Technology, Gandipet, Hyderabad	26.06.1972	female	poomachandrika_smt@cbit.ac.in	9550553725	OC	to gain knowledge about incubation	phd	505494908833
17	V.Jaipal Reddy	V.Satya Reddy	6-2-33/2/B, Chandriak Colony, Near Raghavendra High School, ShivaramPally, Rajendra Nagar ,Landmark- Pillar No. 294	22-06-1981	Male	vjaipalreddy_mech@cbit.ac.in	9966336477	OC	To gain knowledge about incubation	M.Tech	8866995226632
18	Dr L.Suresh kumar	L.Ramasubbaiah	#404, Tower 15, Provident Kenworth, Rajendra Nagar	15-02-1974	Male	lsureshkumar_mech@cbit.ac.in	9398839104	OC	To understand the role and administration of a business incubator in entrepreneurship.	P.HD,LLB	399803334902
19	P.Radha Krishna Prasad	P.Chantayya Shahukar	9-1-159/5/1 First Floor, Sebastian Road, Secunderabad	22-06-1965	Male	prkrasad_mech@cbit.ac.in	9848223473	OC	To get more insights in the area of incubation	M.E	992257262011
20	DEVAREDDY HARSHA	D.Chandrasekhar Reddy	Fat No.401,Sri Durga Ganesh Nilayam , Vaishali Nagar , Madinaguda , Ranga Reddy	04-08-1986	Male	devarreddyharsha@gmail.com	9440573124	OC	To gain the knowledge in the area of incubation & IPR	M.Tech.	726689691966
21	B.Sateesh	B.Gopulu	Flat no 102, Udaya Apartment, Gandhi Nagar, Hyderabad	24-10-1983	Male	bsateesh_cse@cbit.ac.in	9866801591	BC-B	To understand the concept of role of incubation in an institute	M.Tech	648547533228
22	U.Sairam	U.Ramayogulu	Flat no.302, Raghava Residency, Hydershakote,Hyderabad	20-02-1991	Male	sairam.cbit@gmail.com	8143364133	SC	to gain knowledge	M.Tech	901975630329
23	Dr Varimadugu Aruna	V.Govinda Reddy	Flat No.305,Srinivasa Apartments, Bhegaya nagar Colony, K.S.Bakery Lane	29-04-1980	Female	aruna429@gmail.com	9849831044	OC	To know about the incubation and the schemes	PHD	955208428600



Sno	Trainee Name (as per SSC)	Father Name	Trainee Address	Date of Birth	Gender	E-mail id	Mobile No	Category	Trainees Objective	Highest Education	Aadhar No
24	V.Prashanth rao	VSR Prasad	10-1-255/1,road no-1,thapovan colony,lingojiguda saroomagar	27-06-1984	Male	prashanthvallavoju@gmail.com	7702352345	SC	To know the Entrepreneurs idea and requirement	B.Tech	326128191717
25	Neralla Kunta Venkateswara Rao	N Krishna Murthy	24-132/2,Anand bagh,malkajgiri Hyderabad	13-06-1969	Male	venkateshwarrao_mech@cbit.ac.in	9248161694	OC	To gain knowledge about incubation	M.E	439944047649

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 Jankalya Bharathi Institute of Technology (A)  
 Hindipet, Hyderabad-500 075, Telangana





भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/25

**प्रतिभागिता प्रमाण-पत्र**  
**Certificate of Participation**

प्रमाणित किया जाता है कि श्री वि जयपाल रेड्डी सुपुत्र श्री वी सत्य रेड्डी ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैंपस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्क्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूलमउ मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that **Mr. V JAIPAL REDDY S/o. Mr. V.SATYA REDDY** has successfully completed the **MANAGEMENT DEVELOPMENT PROGRAMME (MDP)**, sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic **Establishment Management of Business Incubators** organized National Institute for Micro, Small and Medium Enterprises at **NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.**

स्थान / Place : **HYDERABAD**

दिनांक / Date : **21-03-2023**



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
**V. SWAPNA**  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

**PROFESSOR & HEAD**  
of Mechanical Engineering  
Jawahar Institute of Technology (A)  
Hyderabad-500 075, Telangana



भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/20

प्रतिभागिता प्रमाण-पत्र  
Certificate of Participation

प्रमाणित किया जाता है कि श्री देवदार हर्ष सुपुत्र श्री डी चंद्रशेखर रेड्डी ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैंपस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्क्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूलमउ मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Mr. DEVAREDDY HARSHA S/o. Mr. D.CHANDRASEKHAR REDDY has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Rajya Bharathi Institute of Technology  
Andipet, Hyderabad-500 075, Telangana





भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/3

प्रतिभागिता प्रमाण-पत्र  
Certificate of Participation

प्रमाणित किया जाता है कि सुश्री बी लावन्या सुपुत्री श्री बी श्रीरामुलु ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैंपस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्क्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूक्ष्म मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Ms. B LAVANYA D/o. Mr. B SRIRAMULU has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

  
PROFESSOR & HEAD  
Department of Mechanical Engineering  
Maitanya Bharathi Institute of Technology  
Bandipet, Hyderabad-500 075, Telangana



भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/7

प्रतिभागिता प्रमाण-पत्र  
Certificate of Participation

प्रमाणित किया जाता है कि सुश्री एक भार्गवी सुपुत्री श्री एक स्वामी गौड ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैंपस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्क्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूलमउ मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Ms. A BHARGAVI D/o. Mr. A SWAMI GOUD has successfully completed the **MANAGEMENT DEVELOPMENT PROGRAMME (MDP)**, sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic **Establishment Management of Business Incubators** organized National Institute for Micro, Small and Medium Enterprises at **NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.**

स्थान / Place : **HYDERABAD**

दिनांक / Date : **21-03-2023**

नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
**V. SWAPNA**  
National Institute for MSME



हस्ताक्षर अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology  
Gandipet, Hyderabad-500 075, Telangana





भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/4

प्रतिभागिता प्रमाण-पत्र  
Certificate of Participation

प्रमाणित किया जाता है कि सुश्री आर सौजन्य सुपुत्री श्री आर श्रीनिवासा राव ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैम्पस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्व्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूक्ष्म उद्यम मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Ms. R SOWJANYA D/o. Mr. R SRINIVASA RAO has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology  
Gandipet, Hyderabad-500 075. Telangana



भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/19

**प्रतिभागिता प्रमाण-पत्र**  
**Certificate of Participation**

प्रमाणित किया जाता है कि सुश्री डॉ। एस नरसिम्हा कुमार सुपुत्री श्री एस सम्पथ कुमार ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैम्पस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्व्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूक्ष्म उद्यम मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Ms. DR S NARASIMHA KUMAR D/o. Mr. S.SAMPATH KUMAR has successfully completed the **MANAGEMENT DEVELOPMENT PROGRAMME (MDP)**, sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic **Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.**

स्थान / Place : **HYDERABAD**

दिनांक / Date : **21-03-2023**



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
**V. SWAPNA**  
National Institute for MSME

हस्ताक्षर-प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Sri Jayacharya Bharathi Institute of Technology (SJBIT)  
Andipet, Hyderabad-500 075, Telangana





भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/11

प्रतिभागिता प्रमाण-पत्र  
Certificate of Participation

प्रमाणित किया जाता है कि सुश्री डॉ वरिमादुगु अरुणा सुपुत्री श्री वी गोविंदा रेड्डी ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैंपस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्क्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूलमउ मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Ms. DR VARIMADUGU ARUNA D/o. Mr. V.GOVINDA REDDY has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Sriya Bharathi Institute of Technology (A)  
Adilpet, Hyderabad-500 075, Telangana



भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33812/MDP/2022-23/21

प्रतिभागिता प्रमाण-पत्र  
Certificate of Participation

प्रमाणित किया जाता है कि श्री के गंगाधर राव सुपुत्र श्री के देवदणम ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैंपस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्क्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूलमउ मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Mr. K GANGADHAR RAO S/o. Mr. K. DEVADANAM has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Jaya Bharathi Institute of Technology (A)  
Tel. Hyderabad-500 075, Telangana





भारत सरकार  
Government of India  
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय  
Ministry of Micro, Small & Medium Enterprises  
विकास आयुक्त का कार्यालय  
Office of Development Commissioner



Certificate No.: 33842/MDP/2022-23/12

प्रतिभागिता प्रमाण-पत्र  
Certificate of Participation

प्रमाणित किया जाता है कि श्री के शामसुंदर सुपुत्र श्री के शंकरजी ने सूक्ष्म, लघु और मध्यम उद्यमों के लिए राष्ट्रीय संस्थान द्वारा नेशनल इंस्टीट्यूट फॉर माइक्रो, स्मॉल एंड मीडियम एंटरप्राइजेज (नि-एमएसएमई) कैम्पस, यूसुफगुडा में दिनांक 14/03/2023 से 18/03/2023 तक बिजनेस इन्क्यूबेटर्स की स्थापना और प्रबंधन विषय पर आयोजित एवं विकासायुक्त, सूलमउ मंत्रालय (भारत सरकार), द्वारा प्रायोजित प्रबंधन विकास कार्यक्रम (एमडीपी) में भाग लिया व सफलतापूर्वक किया है।

This is to certify that Mr. K SHAMSUNDAR S/o. Mr. K SHANKARJEE has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023



नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana



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This is to certify that Mr. DR L SURESH KUMAR S/o. Mr. L.RAMASUBBAAIAH has successfully completed the **MANAGEMENT DEVELOPMENT PROGRAMME (MDP)**, sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic **Establishment Management of Business Incubators** organized **National Institute for Micro, Small and Medium Enterprises** at **NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.**

स्थान / Place : **HYDERABAD**

दिनांक / Date : **21-03-2023**

नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
**V. SWAPNA**  
National Institute for MSME



हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
Agency  
**National Institute for Micro, Small and Medium  
Enterprises - NI-MSME**  
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**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Jitanya Bharathi Institute of Technology (A)  
Andipet, Hyderabad-500 075, Telangana





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This is to certify that Ms. JYOTHIRMAYI NARNE D/o. Mr. N RAVEENDRA BABU has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023

नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME



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Signature of Officer In-charge of Programme Implementing  
Agency  
National Institute for Micro, Small and Medium  
Enterprises - NI-MSME  
Seal with name and Designation

PROFESSOR & HEAD  
Department of Mechanical Engineering  
Jaitanya Bharathi Institute of Technology (A)  
Bandipet, Hyderabad-500 075, Telangana



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This is to certify that Mr. P RAMESH S/o. Mr. P HANUMU has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023



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Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME

हस्ताक्षर प्रभारी अधिकारी  
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PROFESSOR & HEAD  
Department of Mechanical Engineering  
Janya Bharathi Institute of Technology (A)  
Dipet, Hyderabad-500 075, Telangana





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This is to certify that Ms. DR BVS RAO D/o. Mr. BV RAMANA MURTHY has successfully completed the MANAGEMENT DEVELOPMENT PROGRAMME (MDP), sponsored by O/o Development Commissioner, Ministry of MSME, Govt. of India, during the period from 14/03/2023 to 18/03/2023 on the topic Establishment Management of Business Incubators organized National Institute for Micro, Small and Medium Enterprises at NATIONAL INSTITUTE FOR MICRO, SMALL AND MEDIUM ENTERPRISES (NI-MSME) CAMPUS, YOUSUFGUDA.

स्थान / Place : HYDERABAD

दिनांक / Date : 21-03-2023

नाम और हस्ताक्षर, कार्यक्रम समन्वयक  
Name & Signature of Programme Coordinator  
V. SWAPNA  
National Institute for MSME



हस्ताक्षर प्रभारी अधिकारी  
Signature of Officer In-charge of Programme Implementing  
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Enterprises - NI-MSME  
Seal with name and Designation

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Jaitanya Bharathi Institute of Technology (A)  
Landipet, Hyderabad-500 075, Telangana

## Brain, Behaviour & Beyond

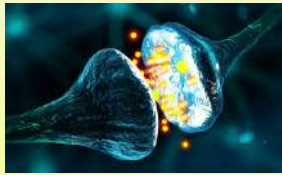
### Lecture and Demo series on Neuroscience

#### Day 1: Session 1 (April 8):

**Synapses** by **Vanika Dhingra**, PhD student, Nano-Org Lab.

How do Neurons communicate with each other? What signals do they send?

We will begin our journey from the alphabets of neural signals and discuss the mechanisms that enable it and how we observe them.



#### Link to Join

MS Teams meet

[Click here to join the seminar](#)

Saturday: 9:00 am - 4:30 pm

Sunday: 9:00 am – 1:30pm

On **April 8<sup>th</sup>** and **April 9<sup>th</sup>**

#### Day 1: Session 2 (April 8):

**Brain Waves** by **Srishty Aggarwal**, PhD student, NeurOscillations Lab

How do we listen to the rhythms of the brain? One way is through Electrophysiology.

We'll discuss about the origins of electrical activity and showcase some interesting signatures.



#### Day 1: Session 3 (April 8):

**Vision** by **Shubhankar Saha**, PhD student, Vision Lab

How do we see what we see?

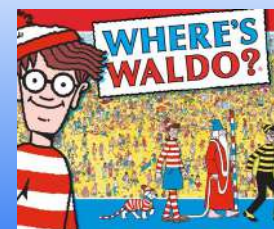
Join me in the dive to search for the rules applied by our intelligent visual system to make sense of the world!



#### Day 2 : Session 1 (April 9):

**Attention** by **R. Krishnakumaran**, PhD student, NeurOscillations Lab

We never see the full picture. Literally!!  
Yet we can "focus" and look for answers  
On Day 2, we will Focus on Visual Attention,  
How we test it and discuss its mechanisms.



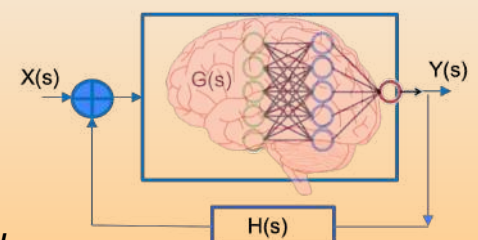
#### Day 2: Session 2 (April 9):

**Feedback Control & the Brain**

**Reading the Minds: Decoding the Brain** by **Deepak Raya**, PhD student, Cognition Lab, (Alumnus, CBIT, Hyderabad)

1. How can we use feedback control theory to understand motor control and stability in the Brain? What are the potential applications of this?

2. Tutorial on techniques that neuroscientists use to make sense of neural data and connect brain with behaviour.







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INSTITUTE OF TECHNOLOGY (A)

Kotapet(Village), Chinnipet, Hyderabad, Telangana-500078. www.cbit.ac.in

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44  
years

### A Brief Report on Guess The Gadget

Name of the Event : Guess The Gadget 2K23  
Date : 31<sup>st</sup> Jan and 1<sup>st</sup> Feb Jan 2023  
Venue : N-Block Lane, CBIT, Hyderabad  
Faculty Coordinators : Dr.Sai Krishna, Asst Professor, ECE  
Sri.P.Ranjith Asst Professor, ECE  
Student Coordinators : Anoushka 3<sup>rd</sup> Year, Kinnera Tulluri 2<sup>nd</sup> Year, Siddartha  
Neela 2<sup>nd</sup> Year, Bhavani Prasad Reddy 2<sup>nd</sup> Year, Nithin 2<sup>nd</sup> Year.

During the annual technical fest SUDHEE 2023, IETE ISF CBIT organized the inaugural edition of GUESS THE GADGET as part of the QUINTIPLE theme in association with SYNAPSE 2K23. The event aimed to promote fast thinking and provide students with a unique experience in solving electronics problems. A large number of CBIT students and students from other Hyderabad colleges participated in the event.

The game was created to allow players to use technology to solve clues. Players can compete alone or in teams of two. There are three slots to choose from, with two available on January 31, 2023, and one available on February 1, 2023. Users can select the slot that works best for them. The game can be played in two ways. Teams use a gadget called "chit" where one teammate draws on a board while the other guesses the name of the gadget. Solo players collect clues to determine the correct gadget name.

After every round, we asked the players for their feedback on their experience and suggestions for any necessary improvements. The winners were determined based on their performance according to the time requirements and the final results observed by our volunteers.

The winners were announced by the head of ECE department of CBIT Dr. D. Krishna reddy sir on the last day of SUDHEE i.e., 1<sup>st</sup> January and facilitated with cash prize and participation certificates. Participation certificates were given to all other participants later on.

**Registration fee:** 30/- for solo and 50/- for team of two.

**Total cash prize:** 1000/-

**Total number of participants:** 135

Winners:

1. Varun – ECE 2 – 2nd year, CBIT
2. Chaitanya Krishna – ECE 2 2<sup>nd</sup> year, CBIT



GALLERY:



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INSTITUTE OF TECHNOLOGY (A)**

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. [www.cbti.ac.in](http://www.cbti.ac.in)



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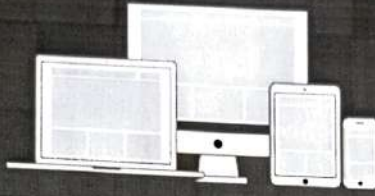
**44**  
years



SUDHEE 2K23

# GUESS THE GADGET

SCAN TO REGISTER:



SYNAPSE'23

# +QUINTUPLE

**PAY 30/-  
WIN 1000/-**

**ON:**  
31st JAN  
1st FEB

TALK TO US

VENUE: N-BLOCK LANE

CONTACT US:

STUDENT COORDINATORS:

ANOUSHKA-8790755330

KINNERA-6302002593



FACULTY COORDINATORS:

Dr.SAI KRISHNA

Sri.P.RANJITH

**MERIT & PARTICIPATION CERTIFICATES WILL BE GIVEN**

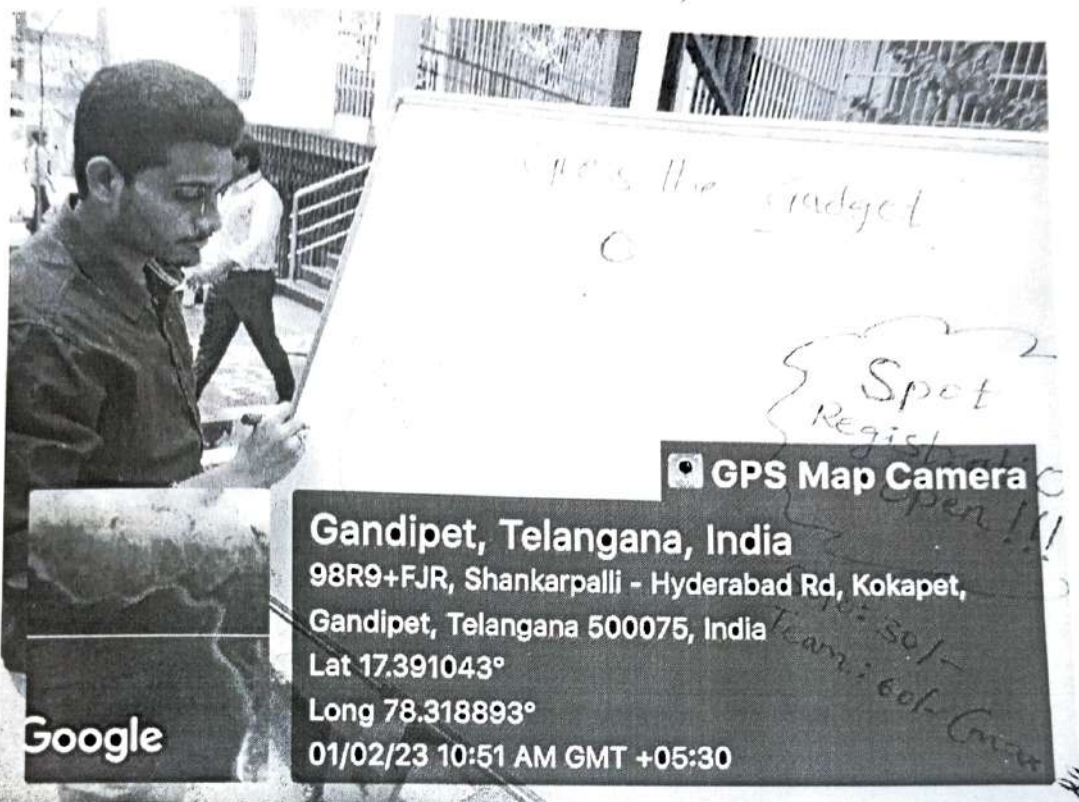
@iete\_cbti

Fig.1 GUESS THE GADGET Poster



**Fig.2 Participation of candidates on Day-1 (slot -1)**

(Student coordinators: Nithin, Kinnera)



**Fig.3 – Participations of candidates on Day -1 (slot 2)**



## A BRIEF REPORT ON WEB DESIGNING CONTEST

The IETE ISF CBIT organized a **WEB DESIGNING CONTEST** during their annual technical fest, **SUDHEE 2023**, as part of **QUINTUPLE** under **SYNAPSE 23**. The **CONTEST** aims to showcase students' designing abilities in front end **WEB DESIGNING**.

**Name of the event:** **WEB DESIGNING CONTEST 2023(IETE-ISF)**

**Date:** 1<sup>st</sup> February 2023.

**Venue:** VLSI Lab, Microcontrollers lab, N Block, CBIT.

**Timings:** from 9:30 to 12:00pm

**Faculty Coordinators:** Sri.P.Ranjith, Assistant Professor, ECE

Dr.Jeeth Ghosh, Assistant Professor, ECE

**Student Coordinators:** J.Victor Paul

V.Hima Vamsi

Shruti Upadhyaya

P.Vivck

B.Abhimanyu

---

The contest is to design a front-end of a web site. The contestants can choose one from the 3 themes given i.e., Travel Blog, Business, IETE website.

The contest consisted of two rounds and started around 9:30 a.m. In round 1 contestants were divided into two groups based on the themes they chose. Group 1 had contestants who chose TRAVEL BLOG, and Group 2 had contestants who chose BUSINESS and IETE WEBSITE as their theme. Group 1 contest was held in VLSI Lab, N-BLOCK Group 2 contest was held in microcontrollers lab.

Round 1 of the competition involved contestants from both groups presenting their designs, and judges evaluating them based on parameters such as Layout, Colors, Mechanical aspects and Graphics. Later, the top 5 contestants from Round 1 are promoted to Round 2. All judges from both groups evaluated the designs in round 2 and picked the top 3 designs.

The contest ended with declaration of winners by the HOD of ECE department Dr.D.Krishna Reddy sir. The merit certificates were handed out later in the valedictory session.



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Topic: *and* *and* (Date: 2008)

Best designs of the contest are from:

1. *and* *and* - WINNER (from NIT, IS Theme: IETE Website)
2. *and* *and* - RUNNER (from IIT Theme: Business)
3. *and* *and* - RUNNER (from IIT Theme: Travel Blog)

No. of participants: 22

Registration fee: 50/-

The Student Coordinators and Faculty Coordinators well organized the Contest smoothly. This contest has given a wonderful opportunity for the participants to work on the web pages and to compete with best web designers from various departments. Finally, thanking the EC department and IETE ISF and IETE Faculty Coordinators for giving the opportunity.



**POSTER:**

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbri.ac.in

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**SUDHEE '23**

**IETE STUDENT FORUM & DEPARTMENT OF ECE**

**SYNAPSE 23**

**QUINTUPLE PRESENTS**

**THEME: (CHOOSE ONE)**  
TRAVEL BLOG  
BUSINESS  
IETE WEBSITE

**VENUE:**  
ES/VLSI LAB  
N-BLOCK

**DATE:**  
01/02/2023

**TIME:**  
FROM 9:30 AM

**TOTAL CASH PRIZE WORTH ₹2,000/-**

**WEB DESIGNING CONTEST 2023**

**REGISTRATION FEE PER HEAD : 50/-**

**SCAN TO REGISTER**



**FACULTY COORDINATORS:**  
SRI. P. RANJITH    DR. JEET GHOSH

**STUDENT COORDINATORS:**  
VICTOR PAUL-7569836416  
HIMA VAMSI-9849370674

✉ iete\_isf@cbri.org.in    📷 iete\_cbri

**"PARTICIPATION CERTIFICATE WILL BE GIVEN"**

**WEB DESIGNING POSTER**



**PHOTOS:**



**Contestant presenting his design round 1**



**Contestant presenting his design in round 2**



**Dr.N.V.Koteswara Rao(Director-IQAC) sir and Sri.T.Sridhar sir  
Interacting with contestants and student coordinators  
(V.Hima Vamsi,P.Vivek)**

## REPORT ON TECHNICAL DEBATE

**Club Name:** IETE-ISF CBIT

**Event Name:** Technical Debate

**Date:** 1<sup>st</sup> February 2023

**Time:** 10:00 AM to 1:00 PM

**Venue:** E-Class Room, Room no. N-301, CBIT

**Judges:** P. Jaya Prasanth Reddy

**Faculty Co-ordinators:** T.Sridher Asst Professor, ECE, CBIT, Smt.B.Neeraja, Asst Professor, ECE, CBIT

**Student Co-ordinators:** B.Snehitha, 3<sup>rd</sup> Year, P.Bindu Vasini 2<sup>nd</sup> Year, Rama Rohith 2<sup>nd</sup> year, M. Leela Sai Santhosh 2<sup>nd</sup> Year, Muni Gayathri 2<sup>nd</sup> Year

**No. of Participants:** 61

The IETE-ISF CBIT organized a Technical Debate event under the name of Synapse 2023 on 1st February 2023 as a part of SUDHEE-2023, the Technical Fest of CBIT. This event had an overwhelming response with over 60 registrations from enthusiastic participants from all years of engineering and from various colleges. The debate was conducted in two levels, with participants qualifying for level 2 after successfully completing level 1. The topic for the Level 1 debate was the Effects of Technology, while the Level 2 debate focused on the Advantages and Disadvantages of Artificial Intelligence. The topic for the level 1 was declared much before the date of the event while for the second level it was revealed on the spot. The event was conducted in the campus of CBIT. It is organized at two venues simultaneously for level 1 with 30 participants in each panel. Five best participants from each panel were promoted to level 2. The debate were judged by a panel of experienced professionals from the industry, with participants given an allotted time for their opening remarks, rebuttals, and closing statements. The participants were judged on several parameters, including their research and knowledge about the topic, communication skills, critical thinking, and presentation skills. The judges evaluated the participants based on their arguments, logical reasoning, and ability to articulate their points effectively. The event provided an excellent opportunity for participants to showcase their debating skills and engage in healthy discussions on the impact of technology on society. The event also provided a platform for participants to exchange ideas and learn from each other's perspectives. The winner of the event was awarded certificate of appreciation and cash prize of ₹2000, and their names were announced on the social media handles of IETE-ISF CBIT. The event has been witnessed by Dr.Krishna Reddy, Head of the Department-ECE, Dr.N.V.Koteshwar Rao, Director-IQAC and other faculty. The event concluded on a positive note, with the participants expressing their satisfaction with the event and appreciation for the organizers.

In conclusion, the Technical Debate event organized by IETE-ISF CBIT under the name of Synapse 2023 was a resounding success. The event provided a platform for participants to showcase their skills, engage in healthy discussions, and exchange ideas. It also highlighted the importance of critical thinking and effective communication skills in today's world. This event turned out to be successful with active participation from the



## A Brief Report on Invited Talk

**Name of the Event:** Invited Talk

**Date:** 2<sup>nd</sup> Nov 2022

**Topic:** Invited Talk on "Telecommunication aspects in Indian Railways"

**Speaker:** Shri. S. M Hafeez Ali, Asst Professor (Telecom), IRISSET, Secunderabad

**Target Audience:** BE ECE Sem III & V Students (ISF & Non ISF Students)

**Venue:** N-Block Seminar Hall, CBIT(A), Hyderabad

**Faculty Coordinators:** Sri. T. Sridher, FIETE, Asst Professor, ECE, CBIT  
Sri. P. Ranjith, Asst Professor, ECE, CBIT

**Student Coordinators:** Snehitha Battula, Focal Person IRISSET, Asst. Professor, ECE, CBIT  
Sem V  
Sri.P. Chandrashekar, Sujith Kudupudi, Varun Kamshetty of BE ECE

In view of the IETE 69<sup>th</sup> foundation day celebrations, the IETE Student Forum (ISF), CBIT and Navigation and Communication Research Centre (NSRC) of the ECE department of Secunderabad organized an Invited Talk by Shri. S. M Hafeez Ali, Asst Professor (Telecom), IRISSET, 2022. The Program started at 10:30 AM and went along till 12:30 PM, coordinated by the Executive Board members of ISF, CBIT. The Head of the Department, Faculty members from the department and a total of 289 students from ECE (119 Sem III & 170 Sem V Students – including ISF members) attended the Talk.

The session began with the announcement of the new Executive board of IETE Student Forum, CBIT for the year 2022-2023. Then, the Brochure of the Navigation and Communication Research Centre (NSRC) (Vol.2) was launched by the guest and the faculty coordinators. Later, the speaker was invited to the stage to start the talk session. The Speaker Shri. S. M Hafeez Ali has made the session very informative by delivering his talk with his presentation about the Telecommunication aspects in Indian Railways. The main points of the talk were Optical Fibre Cables (OFC) in Railways, Multi Protocol Label Switching (MPLS), Video Surveillance system (CCTV), Mobile Train Radio Communication (MTRC), Communication Based Train Control (CBTC), Data Networks and Video Conferencing services and Wi-Fi of Indian Railways.

The session also covered the opportunities available for the ECE students at the Indian Railways and an idea about the Indian Railways Institute of Signal Engineering and Telecommunications (IRISSET). The Overall session was really very interesting and informative to the students.

Sri. T. Sridher, Asst Professor, Sri. P. Ranjith, Asst Professor, and Sri.P.Chandrashekar Asst Professor are the faculty coordinators of this Invited Talk.





### A Brief Report on Technical Hunt

Name of the Event	:	Technical Hunt 2K23
Date	:	31 <sup>st</sup> Jan and 1 <sup>st</sup> Feb Jan 2023
Venue	:	N-Block Lane, CBIT, Hyderabad
Faculty Coordinators	:	Sri.P.Chandra Shekar, Asst Professor, ECE Dr.D.Naga Devi, Asst Professor, ECE
Student Corrdinators	:	Nikhil Anneboina 3 <sup>rd</sup> Year, Varun Kamishetty 3 <sup>rd</sup> Year, Dharani , Sevireddy 2 <sup>nd</sup> Year, Sanikommu ishal Reddy 2 <sup>nd</sup> Year, Mannepally Nikitha 2 <sup>nd</sup> Year

The IETE ISF CBIT organized its first edition of TECHNICAL HUNT during the annual technical fest SUDHEE 2023, as a part of the theme QUINTIPLE in association with SYNAPSE 2K23. The main objective of event is to enhance quick thinking among students and giving them a different experience in problem solving in the field of electronics. There was a huge participation from students of CBIT and some other colleges in Hyderabad.

Predominantly the game was designed in such a frame that electronics found a way around the clues. Participants can either play solo or a team of two. The game was designed to have three slots of which on day -1 i.e., January 31, 2023 there was two slots and on day 2 i.e., February 1, 2023 there was one. Participants can choose any of the slot of their convenience. The teams were supposed to identify the clue and work on it to reach next the clue. The clues included the different block names along with some numbers that were useful to determine color code.

The process would go on until the team succeeds in identifying the correct resistor color coding using the clues they have collected. Following the completion of each slot, feedback was taken from each participant to know their experience in the play and if any improvements needed. Winners were determined based on the time criteria and the final clues they have submitted to our volunteers.

The winners were announced by the head of ECE department of CBIT Dr. D. Krishna reddy sir on the last day of SUDHEE i.e., 1<sup>st</sup> January and facilitated with cash prize and participation certificates. Participation certificates were given to all other participants later on.

**Registration fee:** 30/- for solo and 50/- for team of two.

#### Winners:

Hemanth – ECE 2 - 3<sup>rd</sup> year, CBIT  
Nitin Kumar – ECE 2 - 3<sup>rd</sup> year, CBIT

- ↓ Total cash prize: 2000/-
- ↓ Total number of registrations: 10
- ↓ Total number of participants: 19

GALLERY:

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years

**IETE\_CBIT X SUDHEE 2023**  
**PRESENTS**

**synapse'23**


**QUINTUPLE**

**TECHNICAL HUNT**

THE ELECTRO'ICO

**WIN EXCITING PRIZES**

**REGISTRATION FEE**  
₹30/- for individual  
₹50/- for a team of two



**Venue:**  
N-block lane CBIT

**Date:**  
31-01-2023  
to  
01-02-2023

For further details contact:  
Student Coordinators:  
Kamshetty Varun-8919435017  
Sevireddy Dharani -9705607601

FACULTY COORDINATORS:  
Sri.P.Chandra Shekhar-9395161120  
Dr.D.Naga Devi-9704111749

Fig.1 TECHNICAL HUNT Poster





**Fig. 1 Participants registering for game on spot Day- 1 (slot -1)**

*(Student coordinators: Nikitha, Dharani)*



**Fig.3 – Participants giving feedback Day -1 (slot 2)**



## A Brief Report on Quiz Masters (Technical Quiz) by ISF-CBIT

**Name of the Event:** QUIZ MASTERS

**Date:** 31<sup>st</sup> January 2023

**Venue:** N107, E-Classroom, N-block, CBIT(A), Hyderabad

**Participants:** Students from CBIT and other engineering colleges

**Faculty Coordinators:** Smt. Ghata Chauhan, Asst. Professor, ECE  
Smt. J. Mounika, Asst. Professor, ECE

**External Judge:** Mr. Chandulal Vislawath

**Student Coordinators:** ECE VI SEM: Sujith Kudupudi  
ECE IV SEM: M. Sree Charana Reddy  
Muthyala Sanjay Reddy  
K. Sindhura Reddy  
J. Phani Sathwik

IETE Student Forum (ISF) and ECE department of CBIT organized "QUIZ MASTERS" a Technical Quiz as a part of QUINTUPLE to all the Engineering students from various colleges under "SYNAPSE 2023" by ECE department for SUDHEE - The Annual Technical Fest of CBIT. The main aim of the event is to create an interest among students to take part in quizzes and test their knowledge in the field of electronics. There are over 100 registrations including solo and group registrations from students of CBIT and few other Engineering colleges.

The Quiz was conducted in 3 rounds. Round 1 being a general questions round was conducted in 2 batches and the top 20 teams were selected for round 2. Three teams from round 2 were selected to participate in round 3. The quiz started around 10:00 am in the morning and ended at 4:00 pm in the evening.

Following the round 1, feedback comments were taken from the external judge and the faculty coordinators. Quiz winners were announced on the same day i.e., on 31<sup>st</sup> January and have been facilitated with certificates and cash prize. Participation Certificates were given to all the participants.

Total cash prize: 2000/-

The top contestants are:

1. Sai Kumar & Sai Bharath - Winners (from CBIT)
2. Sai & Ambrish - Runners (from CBIT)
3. Charanya & Sai Chandra Prasad - Runners (from CBIT)

Registration fees: 30/- for solo participant  
50/- for a team of 2

Total number of registrations: 104

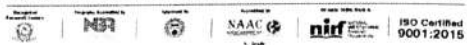
Total Number of Participants: 198

All the contribution by Student Coordinators and the Faculty Coordinators have helped in organizing the Quiz successfully. The Quiz has given a good opportunity to test their knowledge and a good competitive spirit among the students for the future events. Finally, we thank the Head of the ECE department, Dr. D Krishna Reddy, the Faculty Coordinators of ISF, CBIT – Sri T. Sridhar (Asst Professor, ECE), Sri P. Ranjith (Asst Professor, ECE), Faculty coordinators for the event - Smt. Ghata Chauhan (Asst. Professor, ECE), Smt. J. Mounika (Asst. Professor, ECE), the IETE Student Forum (ISF), the department of ECE and our Institute for encouraging and giving the opportunity to conduct the event.



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**SUDHEE 2023**

IETE Student Forum & ECE department

**QUINTUPLE** -presents-

# QUIZ MASTERS


A Technical Quiz in an exciting way

Date- 31-01-2023  
Time: 1.00pm onwards

Registration Fee:  
Rs. 30/- for 1 person  
Rs. 50/- for a team of 2

Win upto **2000/-**

Scan to register



**Venue:**  
N-Block, E-Class Room (N-107)

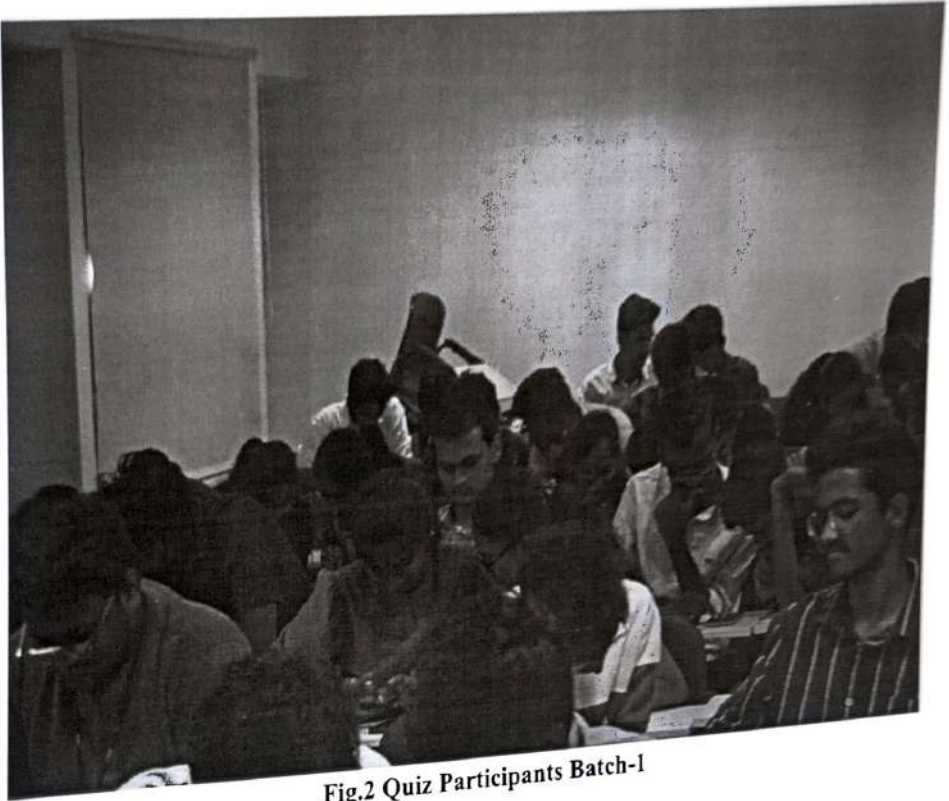
Faculty Coordinators:  
Smt. Ghata Chauhan  
Smt. J. Mounika

Follow us at @ite\_cbit

\*\*Participation Certificates will be given to all

Student Coordinators:  
Sujith Kudupudi - 8499005175  
Charana - 9666999193

Fig.1 QUIZ MASTERS Poster



**Fig.2 Quiz Participants Batch-1**



**Fig.3 Quiz Participants Batch -2**



## Report on HAM Radio Certification Training Program

Date: September 13, 2023

Time: 10:00 AM to 4:00 PM

Location: E Class Room (N-108), CBIT, Hyderabad

Organized by: Ham Radio Club, ECE Department, CBIT, Hyderabad

In Association with: Lamakaan Amateur Radio Club, Hyderabad

Conducted by ECE Department, CBIT

Coordinator: Mr. A. Krishna Kumar, Assistant Professor, ECE Department

Co-coordinator: Dr. Bhasker Dappuri, Assistant Professor, ECE Department

Inaugurated by: Dr. D. Krishna Reddy, HoD, ECE Department

Resource Person: Mr. R J Marcus, UU2VTM

Supporting Team:

Shashi Bhushan, Director of Lamakaan Amateur Radio Club (LARC), Hyderabad

Parmesha G, VU3VXT

Sai Kiran .M, VU3VXT

Participants: 230 students from the III & V semester of ECE

### Executive Summary

On September 13, 2023, a comprehensive training program on HAM Radio was conducted at the Chaitanya Bharathi Institute of Technology (CBIT), Hyderabad. The training aimed to prepare students for the upcoming HAM Radio Certification Examination scheduled for September 26, 2023. This event was organized by the Ham Radio Club of the ECE Department at CBIT, in collaboration with the Lamakaan Amateur Radio Club, Hyderabad.

The training program, held in E Class Room (N-108), was inaugurated by Dr. D. Krishna Reddy, the Head of the ECE Department. The main resource person for the training was R J Marcus, UU2VTM, an experienced instructor with a remarkable teaching history spanning 60 years, including prestigious institutions like IISC Bangalore and Viswswaraya University.

With the active support of Shashi Bhushan, Parmesha G, Sai Kiran .M, and other dedicated team members, this event proved to be a tremendous success, with over 230 students participating and benefiting from the training.

## Training Program Details

### Inauguration

The training program commenced with an inauguration ceremony graced by Dr. D. Krishna Reddy, HoD ECE, CBIT, who delivered an inspiring speech emphasizing the significance of HAM Radio in the field of electronics and telecommunications. Dr. D. Krishna Reddy words set the tone for an engaging and informative day of learning.

### Training Sessions

R J Marcus, UU2VTM, the main resource person, delivered the core content of the training program. His vast experience and profound knowledge in the field of electronics and telecommunications were evident throughout the sessions.

The topics covered included:

Introduction to HAM Radio

Radio Waves and Propagation

HAM Radio Equipment and Operation

HAM Radio Licensing and Regulations

Emergency Communication with HAM Radio

Exercises

The training sessions were interactive, allowing students to ask questions and engage in activities. Mr. Marcus' teaching style, coupled with his practical approach, made complex concepts accessible and understandable to all participants.

### Support Team

The success of the training program was also attributed to the dedicated support team. Shashi Bhushan, Director of Lamakaan Amateur Radio Club (LARC), Hyderabad, played a pivotal role in coordinating the event. Parmesha G, VU3VXT, and Sai Kiran .M, VU3VXT, provided valuable assistance during the practical exercises and demonstrations.

### Certification Examination

Following the training, participants were well-prepared for the upcoming HAM Radio Certification Examination, which was scheduled for September 26, 2023. The knowledge and skills imparted during the training program equipped the students to excel in this examination and obtain their HAM Radio licenses.



Makers of India

MOI x SYNAPSE PRESENTS

# IDEATHON



REGISTRATIONS ARE OPEN!



N block CBIT



23rd and 24th  
march

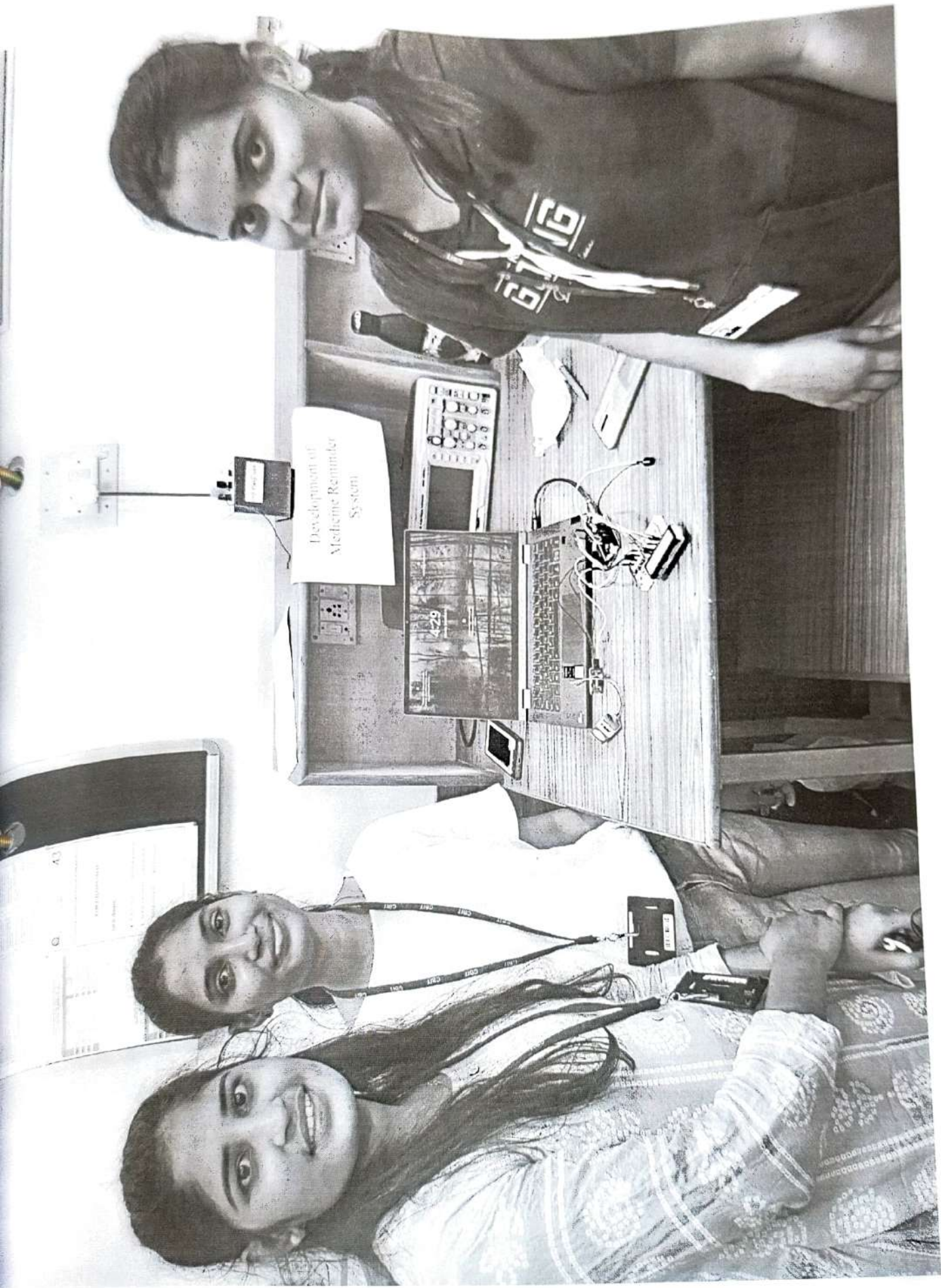


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**SUDHEE'21**

**SYNAPSE**

Makers of India  
Presents


# AAVISHKAAR

Registration fee  
Rs.150/- per team

 3rd & 4th MARCH

 **N-BLOCK**

**STUDENT COORDINATORS**

 ABHIRAM-7013217206  
JOSEPH-9492922808





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**SUDHEE 2023 PRESENTS**

# SYNAPSE 2023

**Nurture Natural Technologies**

**DEPARTMENT OF ECE**



**AAVISHKAAR**  
HARDWARE EDITION

**POSTER**  
PRESENTATION

**PAPER PRESENTATION**

**DRONES**  
WORKSHOP

**Faculty Coordinators:**  
Dr. A. Supraja Reddy : 9866064120  
Dr. M. Vinodh Kumar : 8074885588

**31st Jan & 1st Feb**  
[synapse2023cbbit.co.in](mailto:synapse2023cbbit.co.in)  
[synapse2023cbbit@gmail.com](mailto:synapse2023cbbit@gmail.com)

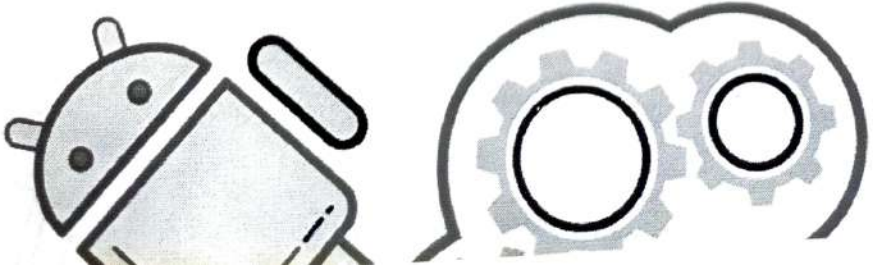
**Student Coordinators:**  
Ms. Janvi Veeramreddy: 9346259855  
Mr. Prithvi Sandeep: 733078928



# AAVISHKAR


## PROJECT EXPO 2023

SOFTWARE EDITION



 **CBIT N-Block**  
**N 003,004**

 **01st FEB**  
**09:30AM to 12:00PM**

 **Shrayan - 7893616456**  
**Prithvi - 7330789283**



Scan the QR code to register



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PROJECTS TO GO  
PROBLEM SOLVING  
SIMULATION TOOLS

44  
1975

# AAVISHKAAR PROJECT EXPO 2023 SOFTWARE EDITION



## Report on Synapse-2023 "Aavishkaar Software Edition"

**AAVISHKAAR Software Edition** was organized under the banner of Makers Of India club in Synapse 2023 as a part of Sudhee'23 on 1<sup>st</sup> February 2023 during 09:30 AM to 12:30 PM. The main objective of the event is to enhance the software skills, solutions with different ideas and approaches to bring a change to the current world by problem solving methods using the simulation tools. In response to this event, 26 students are partaken from various institutions and showcased their skills in designing models using **Tinkercad**. These designs are evaluated by the Sri Praveen Kumar Duruseti, Senior Tech Arch, NETCRACKER, Hyderabad, and Sri N. Jagan Mohan Reddy Assistant Professor, Chaitanya Bharathi Institute of Technology, Hyderabad. One among the participating team is declared as winner of the event.

S.No	Event Name	Faculty Coordinator with Phone Number	Student Coordinator with Phone Number	Venue	Date and Time	Judges with designation and Phone Number
2	Aavishkaar-Software Edition	N.Jagan Mohan Reddy -9912939138 Dr.P.Sathish-9177545484	R.Shrayan-7386221001 Manoj-6305188189	N003-BE Lab N004-Projects Lab	01-02-2023 9AM-12:30PM	D. Praveen Kumar, Senior Tech Arch, NETCRACKER, Hyderabad, 0581817566 praveen27net@gmail.com

### AAVISHKAAR Software Edition photos







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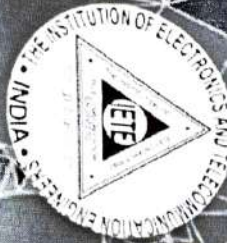
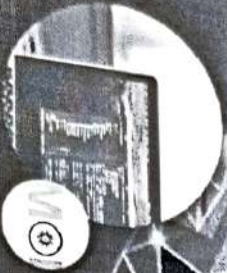
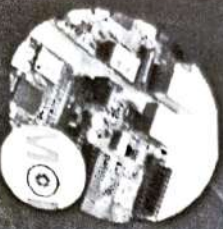
**44**  
years

**SUDHEE 2023 PRESENTS**

**SYNAPSE 2023**

Nurture Natural Technologies

DEPARTMENT OF ECE



**AAVISHKAAR  
HARDWARE EDITION**

**AAVISHKAAR  
SOFTWARE EDITION**

**IETE-ISTE EVENTS  
PRESENTATION**

**POSTER**

**PAPER PRESENTATION**

**DRONES  
WORKSHOP**

**Faculty Coordinators:**

**Dr. A. Supraja Reddy : 9866064120**

**Dr. M. Vinodh Kumar : 8074885588**

[synapse2023cbti.co.in](mailto:synapse2023cbti.co.in)

[synapse2023cbti@gmail.com](mailto:synapse2023cbti@gmail.com)

**31st Jan & 1st Feb**

**Student Coordinators:**

**Ms. Janvi Veeramreddy: 934625985**

**Mr. Prithvi Sandeep: 733078928**



### Report on HAM Radio Certification Training Program

Date: September 13, 2023

Time: 10:00 AM to 5:30 PM

Location: E Class Room (N-108), CBIT, Hyderabad

Organized by: Ham Radio Club, ECE Department, CBIT, Hyderabad  
in Association with: Lamakaan Amateur Radio Club, Hyderabad  
Conducted by: ECE Department, CBIT

Coordinator: Mr. A. Krishna Kumar, Assistant Professor, ECE Department

Co-coordinator: Dr. Bhasker Dappuri, Assistant Professor, ECE Department

Inaugurated by: Dr. D. Krishna Reddy, HOD, ECE Department

Resource Person: Mr. R J Marcus, UUZVTM

Supporting Team:

Shashi Bhushan, Director of Lamakaan Amateur Radio Club (LARC), Hyderabad

Parmesha G, VU3VXT

Sai Kiran .M, VU3VXT

Participants: 230 students from the III & V semester of ECE

#### Executive Summary

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The training program, held in E Class Room (N-108), was inaugurated by Dr. D. Krishna Reddy, the Head of the ECE Department. The main resource person for the training was R J Marcus, UUZVTM, an experienced instructor with a remarkable teaching history spanning 60 years, including prestigious institutions like IISc Bangalore and Viswswaraya University.

With the active support of Shashi Bhushan, Parmesha G, Sai Kiran .M, and other dedicated team members, this event proved to be a tremendous success, with over 230 students participating and benefiting from the training.

**Title of the Session:** Innovations in power generation from sewage water treatment plants, usage of technologies and opportunities for students.

**Speaker Profile:** Sri. Ambati Narahari, Deputy General Manager, HMWS & SB (Hyderabad Metropolitan Water Supply and Sewerage Board)

**Date & Time:** 31-01-2023 & 11:00 am.

**Scope:**

Sri. Ambati Narahari had given Overview of Hyderabad Metropolitan Water Supply and Sewerage Board. Scope for Electrical Engineers in the Sewage Treatment plants and how to produce Biogas from its by-products.

**Learning Outcome of the session:**

Power generation from sewage water treatment plants is a promising area with several technologies and opportunities available. By investing in these technologies, we can harness the energy potential of sewage water treatment plants while reducing environmental impact and promoting sustainable development.

Number of Students Participated: 74

Number of Faculties Participated: 05

Poster:

The poster features a background image of a sewage water treatment plant with large circular tanks and a walkway. At the top, there is a banner with several logos: MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA), INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative), CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) (Kokapet (Village), Gandipet, Hyderabad, Telangana-500075, www.cbhil.ac.in), and a 44 years anniversary logo with the text 'COMMITTED TO RESEARCH, INNOVATION AND EDUCATION'. The main title of the poster is 'Innovations In Power Generation From Sewage Water Treatment Plants, Usage of Technologies And Opportunities For Students.' Below the title, the speaker is identified as 'Sri. Ambati Narahari', Deputy General Manager, HMWS & SB (Hyderabad Metropolitan Water Supply and Sewerage Board). The event date and time are listed as 'Tuesday, 31<sup>st</sup> Jan 2023, @ 11:00 am to 03:00 pm.'

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

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# Innovations In Power Generation From Sewage Water Treatment Plants, Usage of Technologies And Opportunities For Students.

**Speaker**

**Sri. Ambati Narahari**  
Deputy General Manager, HMWS & SB  
(Hyderabad Metropolitan Water Supply and Sewerage Board)

Tuesday, 31<sup>st</sup> Jan 2023,  
@ 11:00 am to 03:00 pm.



Photographs of the session:





**Title of the Session:** INNOVATIVE IDEA MANAGEMENT & TECHNOLOGY REEDINESS LEVEL ACHIEVEMENT

**SpeakerProfile:** Dr. U.K. Choudhury, Prof. & Advisor (Incubation & Innovation), CBIT EX. Executive Director, R&D & Corporate Technology Management , BHEL.

**Date & Time:** 31st May, 2023 & 2:00 pm to 4:30 pm.

**Scope:**

The scope of this project is to develop and implement an innovative idea management system that promotes the identification, evaluation, and implementation of novel ideas within an organization. Additionally, the project aims to assess and enhance the technology readiness level (TRL) of these ideas to ensure successful implementation and adoption.

**Learning Outcome of the session:**

The outcomes for students in the context of innovative idea management and technology readiness level achievement include the development of critical thinking, collaboration, communication, and entrepreneurial skills, as well as exposure to emerging technologies, practical implementation experience, networking opportunities, and recognition for their contributions. These outcomes prepare students for the dynamic and innovative workplaces of the future.

**Number of Students Participated: 82**

**Number of Faculties Participated: 05**

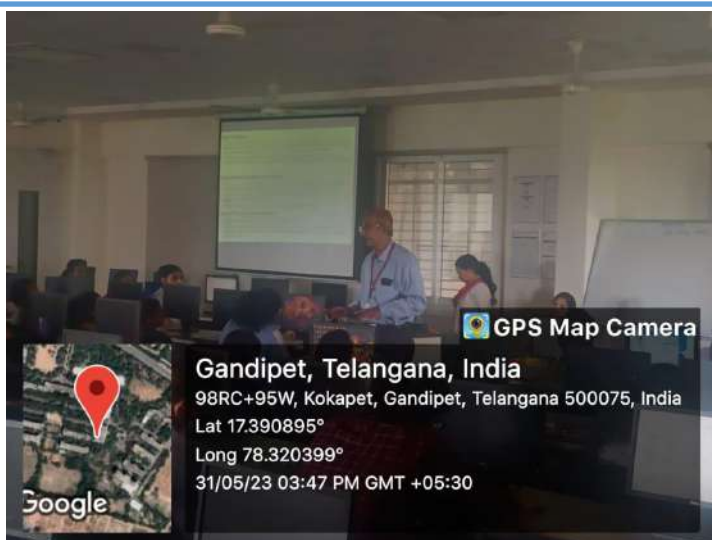
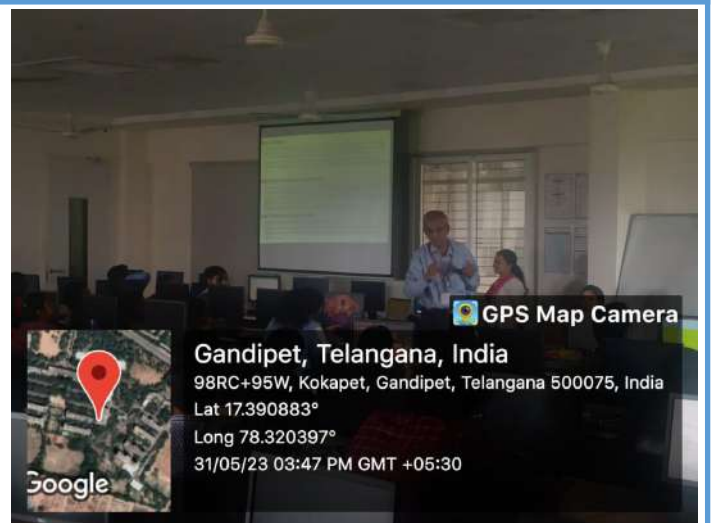
**Poster:**



The poster features a header with logos for MHRD's Innovation Cell, Institution's Innovation Council, and Chaitanya Bharathi Institute of Technology (A). The main title is "INNOVATIVE IDEA MANAGEMENT & TECHNOLOGY REEDINESS LEVEL ACHIEVEMENT" in large red letters. Below the title, it lists the speaker: Dr. U.K. Choudhury, Prof. & Advisor (Incubation & Innovation), CBIT EX. Executive Director, R&D & Corporate Technology Management, BHEL. The venue is specified as CDC TPO Hall no: 3, CBIT(A) on 31st May, 2023, from 2:00 PM to 4:30 PM. The co-ordinator is Dr. Madhulika Das, Asst. prof, EEE-Dept., with contact number +91 7980200299 and email madhulikadas\_eee@cbit.ac.in.



Photographs of the session:



**INNOVATIVE IDEA MANAGEMENT & TECHNOLOGY REEDINESS LEVEL ACHIEVEMENT**

**SPEAKER**  
**Dr. U.K. Choudhury,**  
 Prof. & Advisor (Incubation & Innovation),  
 CBIT EX. Executive Director,  
 R&D & Corporate Technology Management, BHEL.

**Venue:**  
 Offline/Hybrid-mode at CDC TPO Hall no: 3, CBIT(A)  
 31<sup>st</sup> May, 2023. 2:00 PM to 4:30 PM.

**Co-ordinator**  
 Dr. Madhulika Das, Asst. prof, EEE-Dept.  
 +91 7980200299 madhulikadas\_eee@cbit.ac.in

**Title:** Importance of Intellectual Property and workshop on IPR and IP Management for the Entrepreneur and Start-up

**Speaker Profile:** Dr. U.K. Choudhury, Prof. & Advisor(I&I), CBIT (A)

**Date:** 30/08/2023

**Number of Students Participated:** 59

**Number of Faculties Participated:** 02

**Poster:**



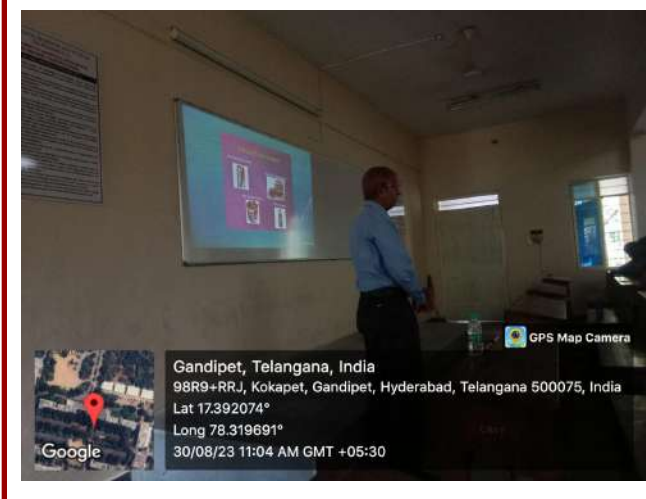
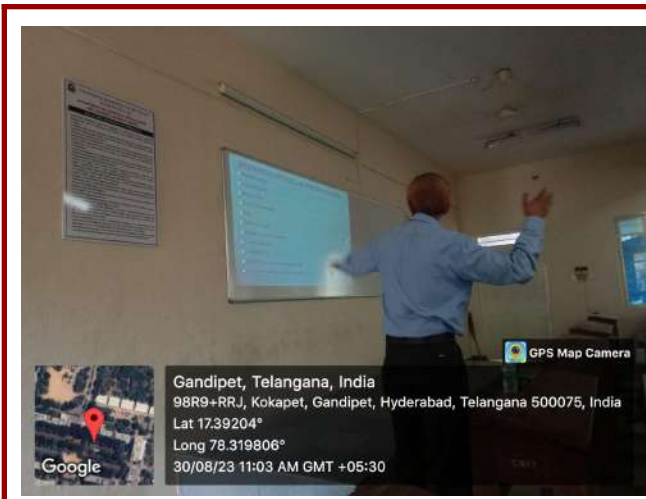
The poster features logos for MoE's Innovation Cell, Institution's Innovation Council, and Chaitanya Bharathi Institute of Technology at the top. The main text reads: **WORLD ENTREPRENEUR'S DAY**, 21st - 31st Aug, 2023. The event title is **IMPORTANCE OF INTELLECTUAL PROPERTY AND WORKSHOP ON IPR AND IP MANAGEMENT FOR THE ENTREPRENEUR AND START-UP**. The speaker is **Dr. U.K. Choudhury**, Prof. & Advisor(I&I), CBIT (A), with a portrait photo and bio: Former Executive Director Corporate R&D and Corporate Technology, Mangement, BHEL (38 years of Industrial R&D Experience, 30 IPRs to his credit). The venue is **C204, CSE MEETING HALL C-BLOCK**, date is **30TH AUG 2023**, and time is **10:00 AM**. The poster is decorated with colorful circular graphics at the bottom corners.

**Photographs of the Session:**












**Presentation of the Topic:**



**MoE's  
INNOVATION CELL**  
(GOVERNMENT OF INDIA)



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of Education Initiative)



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY**  
An Autonomous Institute | Affiliated to Osmania University  
Kokapet Village, Gandipet Mandal, Hyderabad, Telangana-500075. www.cbit.ac.in

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EDUCATION



**44**  
years


## WORLD ENTREPRENEUR'S DAY

21st - 31st Aug, 2023


### IMPORTANCE OF INTELLECTUAL PROPERTY AND WORKSHOP ON IPR AND IP MANAGEMENT FOR THE ENTREPRENEUR AND START-UP


**Speaker**

**Dr. U.K. Choudhury**  
Prof. & Advisor(I&I), CBIT (A)



Former Executive Director Corporate R&D and Corporate Technology, Mangement, BHEL  
(38 years of Industrial R&D Experience, 30 IPRs to his credit)





**VENUE: C204, CSE MEETING HALL C-BLOCK**  
**DATE: 30TH AUG 2023**  
**TIME: 10:00 AM**



## **“Creative India; Innovative India: रचनात्मक भारत; अभिनव भारत”**

- The Union Cabinet has approved the National Intellectual Property Rights (IPR) Policy on 12<sup>th</sup> May, 2016 that shall lay the future roadmap for IPRs in India.
- The Policy recognises the abundance of creative and innovative energies that flow in India, and the need to tap into and channelize these energies towards a better and brighter future for all.
- The National IPR Policy is a vision document that encompasses and brings to a single platform all IPRs.
- It views IPRs holistically, taking into account all inter-linkages and thus aims to create and exploit synergies between all forms of intellectual property (IP), concerned statutes and agencies.
- It sets in place an institutional mechanism for implementation, monitoring and review. It aims to incorporate and adapt global best practices to the Indian scenario.

For Educational Purpose

Ref: National IPR Policy

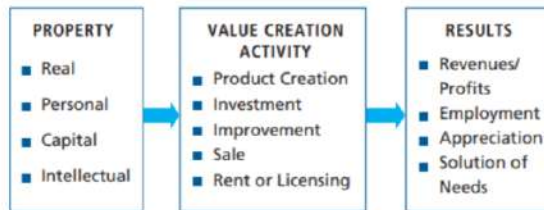
## **Kalam Program for IP Literacy and Awareness(KAPILA)**

- To overcome the current limitations in our innovation ecosystem especially in our HEIs, a systematic holistic effort 'KAPILA: Kalam Program for IP Literacy and Awareness' is proposed.
- KAPILA scheme will create appropriate awareness regarding the need of IP filing, mechanism and methodology involved in filing IP in India and globally, especially amongst students and faculty of higher education institutions.
- KAPILA will help in establishing the much required IP filing ecosystem in large number of education institutions and thus create a culture of systematically protecting new ideas, research and innovation having national and global relevance.
- The objective of KAPILA is to recognise, facilitate and felicitate the Intellectual Property, innovations and best practices in HEIs.

For Educational Purpose



Intellectual Property (IP) is the name given to patents, trademarks, copyrights, industrial designs and other types of intangible property that arise from creations of the mind and in their broadest sense have no physical form.



Like all types of property, IP is owned and can generate income. For this reason IP is considered an asset. It is often the result of investment and should generate a return of one sort or another. IP differs from other types of property because it has no physical form and comes into being because of human intelligence, creativity and imagination.

There are different types of IP each with its own unique laws. IP is sometimes divided into two general categories, "industrial property" and "copyright." Industrial property refers to assets created primarily for the advancement of technology, industry and trade such as patents (inventions), industrial designs, trademarks, service marks, trade secrets and geographic indications of origin.<sup>1</sup> The most common forms of IP are:

## IPR Initiative and its Importance

- IPR have gained special importance for the Industries, Researchers, Academicians, Artists and in all sectors.
- IPR protection plays a key role in gaining competitive advantage in terms of technological gains for achieving higher economic growth.
- IPR requires greater understanding and attention .
- More information, orientation and facilities for protecting their intellectual powers are to be provided.
- Majority of the countries have adopted strategies for implementing strong IPR protection for strengthening their industries and trades.
- Indian industries have also recognized its importance and adopting IPR as a business strategy for enhancing competitiveness.

For Educational Purpose



# WHAT IS INTELLECTUAL PROPERTY

- ▶ **Intellectual property refers to creations of the mind:**
    - ▶ inventions;
    - ▶ literary and artistic works; and
    - ▶ symbols, names and images used in commerce.
  - ▶ **Intellectual property is divided into two categories:**
    - 1) **Industrial Property includes**
      - ▶ patents for inventions,
      - ▶ trademarks, industrial designs
      - ▶ and geographical indications.
    - 2) **Copyright covers**
      - ▶ literary works (such as novels, poems and plays), films, music,
      - ▶ artistic works (e.g., drawings, paintings, photographs and sculptures)
      - ▶ and architectural design.
- For Educational Purpose
- ▶ **Computer Program, formats**

## WHAT IS A PATENT?

A patent is an exclusive right granted for an invention –

- ▶ a product or process that provides a new way of doing something,
- ▶ or that offers a new technical solution to a problem.

Example:

- ▶ literary, artistic and scientific works;
- ▶ performances of performing artists, phonograms and broadcasts;
- ▶ inventions in all fields of human endeavor;
- ▶ scientific discoveries;
- ▶ industrial designs;
- ▶ trademarks, service marks, and commercial names and designations;

For Educational Purpose

## What kind of protection do patents offer?

- Protection against unfair competition; and
- “all other rights resulting from intellectual activity in the industrial, scientific, literary or artistic fields”.
- Patent protection means an invention cannot be commercially made, used, distributed or sold without the patent owner's consent.
- Patent rights are usually enforced in courts that, in most systems, hold the authority to stop patent infringement.
- Conversely, a court can also declare a patent invalid upon a successful challenge by a third party.

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## WHAT RIGHTS DO PATENT OWNERS HAVE?

- ▶ A patent owner has the right to decide who may – or may not – use the patented invention for the period during which it is protected.
- ▶ Patent owners may give permission to, or license, other parties to use their inventions on mutually agreed terms.
- ▶ Owners may also sell their invention rights to someone else, who then becomes the new owner of the patent.
- ▶ Once a patent expires, protection ends and the invention enters the public domain.
- ▶ the owner no longer holds exclusive rights to the invention, and it becomes available for commercial exploitation by others.

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1. In return for patent protection, all patent owners are obliged to publicly disclose information on their inventions in order:
  - to enrich the total body of technical knowledge in the world.
  - This ever increasing body of public knowledge promotes further creativity and innovation.
2. Patents therefore provide not only protection for their owners but also valuable information and inspiration for future generations of researchers and inventors.

## WHAT KINDS OF INVENTIONS CAN BE PROTECTED?

- ▶ It must be of practical use;
- ▶ it must show an element of "novelty", meaning some new characteristic that is not part of the body of existing knowledge i.e "prior art".
- ▶ The invention must show an "inventive step" that could not be deduced by a person with average knowledge of the technical field.
- ▶ In many countries, scientific theories, mathematical methods, plant or animal varieties, discoveries of natural substances, methods of medical treatment (as opposed to medical products) are not generally patentable.

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## WHAT IS A TRADEMARK?

- ▶ A trademark is a distinctive sign that identifies certain goods or services produced or provided by an individual or a company.
- ▶ Its origin dates back to ancient times when craftsmen reproduced their signatures, or "marks", on their artistic works or products.
- ▶ Over the years, these marks have evolved into today's system of trademark registration and
- ▶ protection. The system helps consumers to identify and purchase a product or service
- ▶ based on whether its specific characteristics and quality – as indicated by its unique trademark – meet their needs.
- ▶ Trademarks may be one or a combination of words, letters and numerals.
- ▶ They may consist of drawings, symbols or three dimensional signs,
- ▶ The effects of the registration are, however, limited to the country (or, in the case of regional registration, countries)

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## WHAT IS AN INDUSTRIAL DESIGN?

- ▶ An industrial design refers to the ornamental or aesthetic aspects of an article.
- ▶ A design may consist of three-dimensional features, such as the shape or surface of an article, or two-dimensional features, such as patterns, lines or color.
- ▶ Industrial designs are applied to a wide variety of industrial products and handicrafts:
  - ▶ from technical and medical instruments to watches, jewelry and other luxury items;
  - ▶ from house wares and electrical appliances to vehicles and architectural structures; from textile designs to leisure goods.
- ▶ industrial design is primarily of an aesthetic nature.

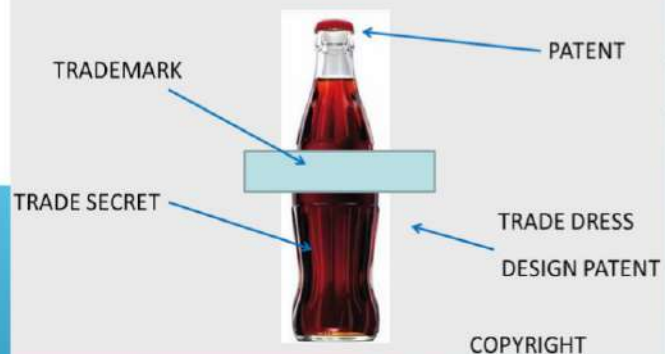
For Educational Purpose

### How many types of IP Are in a Coca-Cola Bottle?

- **Utility Patent** in "tamper resistant cap design"
- **Trademark** in logos on label
- **Copyright** in text on label
- **Trade Dress and Design Patent** covering bottle shape
- **Trade secret**: the formula



Ref: Internet Images



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# WHAT IS A GEOGRAPHICAL INDICATION?

- ▶ A geographical indication is a sign used on goods that have a specific geographical origin and possess qualities or a reputation due to that place of origin.
- ▶ The use of geographical indications is not limited to agricultural products.
- ▶ They may also highlight specific qualities of a product that are due to human factors found in the product's place of origin, such as specific manufacturing skills

For Educational Purpose

## GEOGRAPHICAL INDICATORS AND TRADITIONAL KNOWLEDGE

- ▶ Tirupati Laddu
- ▶ Darjeeling Tea
- ▶ Mysore Silk
- ▶ Kutchh Embrodery
- ▶ Feni
- ▶ Bikaneri Bhujia
- ▶ Nagpur Santra (Orange)
- ▶ Scotch Whisky
- ▶ Basmati Rice
- ▶ Neem as controlling Fungi in plants
- ▶ Haldi/Turmeric for healing wounds

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## TRADE SECRET

- ▶ The subject matter must be kept secret
- ▶ Capable of adding economic value
- ▶ Reasonable precautions and steps to be taken to keep it secret.
- ▶ The purpose is to ensure that no one claims protections for something which was flowing freely to competitors.

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### Famous Trade Secrets

Formula for Coca-Cola



The Big Mac Special Sauce



KFC Chicken Recipe



WD-40 Formula



For Educational Purpose

Ref: Internet Images



# COPYRIGHT LAWS

Copyright laws grant authors, artists and other creators protection:

- ▶ for their literary and artistic creations, generally referred to as "works".
- ▶ The beneficiaries are: performers (such as actors and musicians) in their performances; producers, Compact discs, DVDs in their sound recordings; and broadcasting organizations in their radio and television programs.
- ▶ Novels, poems, plays, reference works, newspapers, **advertisements, computer programs, software, databases**, films, musical compositions, choreography, paintings, drawings, photographs, sculpture, architecture, maps and **technical drawings**.

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Ref: Internet Images



Some of the Trademarks


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## HOW TO FILE PATENTS/COPYRIGHT, PATENT COOPERATION TREATY(PCT) AND INTERNATIONAL PATENT. (FOLLOWING DETAILS WILL BE COVERED IN PART-II OF THE TALK)

### Patent Specifications.

- ▶ Provisions Spec.
- ▶ Complete Spec.

Complete Specifications: Submission of Complete specification with following details are necessary to obtain a patent.

- ▶ Title of the Invention.
  - ▶ Field to which the invention belongs
  - ▶ Background of the invention
  - ▶ Complete Description of the invention
  - ▶ Drawings
  - ▶ Claims
- ▶ Patenting Process, Fees Payable, Formats and Some Examples of Patents.
- 

The parts of the patent application typically include the Background, Summary, Detailed Description and Drawings, Claims, and Abstract. The patent agent is unlikely to draft the patent application in this order and should ordinarily draft the claims first. This is because the claims are the heart of a patent. In reading a patent application:

- the Background section sets the stage for what is to come;
- the Summary section mirrors the claims;
- the Detailed Description and Drawings enable the claims by providing a sufficient technical disclosure of the invention;
- the Claims define the scope of exclusive protection, and
- the Abstract is primarily an aid for patent searchers and normally receives very little substantive review.

All these sections will be explained in more detail below.

Once a patent agent understands the invention he can begin preparing the patent application. The parts of the application are generally:

- claims
- detailed description (or specification)
- drawings
- background
- abstract
- summary

A patent agent will want to consider the patent application's title fairly early. This title should broadly describe the invention. However, titles are not generally examined. Occasionally a patent examiner will decide that a title is not descriptive of the invention. It is best to avoid being overly narrow in the invention's title, although the title should sufficiently indicate the subject matter of the invention.

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The elements in a patent claim must have the correct antecedent basis. This means that the first time an element is introduced, the indefinite article "a" or "an" should be used. Later when referring back to previously introduced elements, the definite article "the" or "said" should be used. Proper antecedent basis is not just a good idea; like gravity, it is the law. The following set of claims will help explain proper antecedent basis:

1. *A device, comprising:  
a pencil; and  
a light attached to the pencil.*
2. *The device recited in claim 1 wherein the light is detachably attached to the pencil.*
3. *The device recited in claim 2 wherein the pencil is red in color.*

Notice that in Claim 1, we introduced the "pencil" for the first time by referring to it as "a pencil." In the same claim, we also introduced the light for the first time as "a light." However, when we wanted to specify that the light was attached to the pencil, we referred to the pencil as "the pencil." The use of the word "the" signaled that the pencil was the one we had previously defined in the claim. Otherwise, there would be ambiguity as to whether it was the same pencil or another pencil. The words "the" and "said" are interchangeable in claims drafting. ("Said" is old-fashioned legalese for the most part, while "the" is an attempt to make language more accessible to non-lawyers.)

For Educational Purpose



The Patent Cooperation Treaty (PCT) is a multilateral treaty that became effective in 1978. The PCT is administered by the International Bureau of the World Intellectual Property Organization (WIPO) whose headquarters are in Geneva, Switzerland. The member countries of the PCT are called PCT Contracting States. As of August 1, 2006, there were 133 PCT Contracting States.

The PCT enables a patent applicant to file one "international" patent application to seek protection in any or all of the PCT Contracting States. The "international" patent application has the effect of filing a regular "national" patent application in each designated state<sup>6</sup> and it is important to understand that WIPO does not issue a "PCT patent" or "international patent" that provides protection in all the Contracting States.

Patents are granted or rejected by each PCT Contracting State or regional office individually under their respective patent laws. Thus, an applicant must still prosecute a patent application in each country or regional office in which he seeks protection and pay the national or regional fees.

The main advantage of filing a PCT application is the additional time gained before having to prosecute applications in other countries after the initial filing. Without the PCT the applicant generally has 12 months to file patent applications in other Paris Convention countries after filing the initial application. In contrast, by using the PCT the applicant has at least 30 months (and more in many countries) from the date of initial filing to begin prosecuting his application in other countries – effectively gaining 18 months. This delay provides time to obtain knowledge as to the patentability and commercial prospects of an invention. It also postpones the major costs of internationalizing a patent application such as paying national/regional fees, translating the patent application and paying fees to local patent agents in the various countries.

For Educational Purpose

Many patent offices require claims to recite at least two elements. A patent claim without many limitations can be impossibly broad. One can readily see the necessity for this rule by comparing the following two claims:

Example 1. A computer, comprising:  
a processor.

Example 2. A computer, comprising:  
a processor;  
a memory; and  
a bus configured to transmit data between the memory and the processor.

The claim from the first example above does not tell the reader much about a computer other than that it is something containing a processor. Of course, the specification will define a processor for us and we can also assume that processors exist in the prior art. Thus, the applicant appears to be claiming anything that contains a processor especially if the preamble is not considered to be limiting. Such a claim is impossibly broad – it reads on a box in which a processor is shipped since we don't know anything more about computers other than that they are structures that contain processors. The second claim provides a lot more structure and definition for computers.

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THANK YOU.

For Educational Purpose

Ref: WIPO Website



**Topic:** Mentoring Event: Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR

**DATE:** 24th May, 23

**Time:** 10:30 am

**No of Participants:** 155

**Poster:**

**Mentoring Event: Demo Day/Exhibition/Poster Presentation of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support - Manage through YUKTI-NIR**

**DemoDay/Poster Presentation Organized by IIC-CBIT (A)**

**Venue: R&E HUB CBIT (A)**  
**Date: 24th, May, 2023**  
**Time: 10:30 am**



**Photographs of Product/Patent Demo at R&E Hub CBIT 24th May, 23**



**Event Photographs of Demo Day/Exhibition/Poster Presentation( Registration)**

Research and Development Centre, R&E Hub				
Research Day 2022-Best Product/poster Demo Details				
S. No	Department	Title of the Abstract	Name of the authors	Name of the college
1	Bio-Tech	Shell-less Culture of Chicken: A rudimentary Stage of Embryo to Final Stage of Organogenesis	Alekhya Pasumarthy, Dhruv Tadikonda, Parsha Tilak and B. Sumithra	CBIT
2	Chemical	Characterization of Floral waste for Extraction of Essential Oils and Dyes	K. Sathwika	CBIT
3	Civil	Study of Mechanical and Fracture Parameters of Steel Fiber Reinforced Geopolmer concrete	Feroz Shaik, Thunuguntla Chaitanya Srikrishna	CBIT
4	CSE(offline)	Quantum Computing - A comprehensive Study for Computer Scientists	M.Sai Harsha	SVIT
	CSE(online)	Reference and non-reference Pixel based prediction for grayscale images	Dr.Ravi Uyyala, Dr.S.China Ramu, Dr.Y.Ramadevi	CBIT
5	ECE	Machine Learning based Multilateration for Enhanced Aircraft Localization	Varsha Reddy Manda, Mahesh Chilaka, Dr.Supraja Reddy Ammana	CBIT
6	EEE	Electrical Parameters Evaluation for Prediction of Partial Shading and Electrical Faults in PV Array Architectures	Dr. Priya Ranjan Satpathy, Dr. Sudhakar Babu Thanikanti	CBIT

7	IT	Alibabas Traffic Management Algorithm - Automatic Traffic Control System	N Puneet Shama, Manav Damani, Vaishnavi Simran Palreddy, Nityadhree	CBIT
8	Mechanical	Net zero energy buildings in India	Dr. Patel Badari Narayana, R Madhusudhana Rao	Mahatma Gandhi Institute of Technology
9	Chemistry	Plants generate electricity	V.Nikhitha, L.Varshitha,P.Supraja,K.Akshaya, T.Sowjanya,V.Laya,T.V.Surendra	CBIT
10	MBA	The Influence of Consumer Engagement on Behavioural Outcomes in Gamified Mobile Apps: An Application of Technology Acceptance Model	Dr.Mandakini Paruthi and Kamarthi Lasya	CBIT (A)
11	MCA	STOCK PRICE PREDICTION USING MACHINE LEARNING	VADLA DHEERAJ KUMAR	CBIT (A)
12	Physics	Scanning Tunneling Microscope studies on DC sputted Ni3Al Nanocrystalline Thin films	Dr. Santhosh Kumar A	CBIT (A)
13	ACIC CBIT	Innovative wearable spectacular device for the visually impaired people that can read for them, help in obstacle free navigation, can recognize the people	T RAVI KIRAN (ACIC CBIT Startup)	CBIT (A)
14	ACIC CBIT	Alien Robot for primary school students which help them to learn with fun, its an combination of IOT and AI which works depending on the facial expressions of the student	T RAVI KIRAN (ACIC CBIT Startup)	CBIT (A)
15	ACIC CBIT	UGV- PRESENTED THE SUSPENSION SYSTEM WITH MULTI TERRAIN VEHICLE, USE Z-SHAFT FOR ECONOMICAL PURPOSE THAT CAN BE USED IN UNMANNED DEFENCE SECTOR	P. Bharat, T. Karthik (ACIC-CBIT innovators)	CBIT (A)
16	ACIC CBIT	UAV- A 700g Drone with capacity of 2kg and range of 30 ft with flight time of 30 min,can be used in unmanned fire extinguisher and pesticides spray	A. Sathwik (ACIC-CBIT innovators)	CBIT (A)





## **MIC Activity : Leadership Talk:**

**Prof. (Dr.) T G Sitharam took over as Chairman, All India Council of Technical Education (AICTE), Govt of India on December 21, 2022.**

**Prof. (Dr.) T G Sitharam** was the Director of Indian Institute of Technology Guwahati, Assam for 3.5 years (from July 2019 to December, 2022). He Obtained his B.E.(Civil Engineering) from University of Mysore; Master's from Indian Institute of Science, Bangalore in 1986 and Ph.D. from University of Waterloo, Ontario, Canada in 1991. He worked as a lecture at University of Waterloo soon after his PhD and later moved to University of Texas at Austin, Austin, Texas, USA (1992-94). He also held the position of Director (additional charge) at Central Institute of Technology Kokrajhar, Assam for 1.5 years (May 2021-November 2022). Presently, he is the Chairman, Board of Governors at CIT, Kokrajhar and Chairman, Board of Management of North East Regional Institute of Science and Technology (NERIST), Nirjuli, Arunachala Pradesh.

Over the last 35 years, he has carried out research and development in the area of geotechnical and infrastructure engineering, seismic microzonation and soil dynamics, Geotechnical earthquake engineering and has developed innovative technologies in the area of earth sciences, leading to about 500 technical papers, 20 books with Google scholar H-index of 53 and I-10 index 149 with more than 8614 citations. He has guided 40 Ph.D. students; 35 Masters Students, 25 postdoctoral students and several thousand industry professionals and teachers through continuing education workshops. He has filed for 5 patents, executed more than 120 consulting projects and 2 start-up companies to his credit. He was listed in the world's top 2% of scientists for the most-cited research scientists in various disciplines by Stanford University in 2020. Again his name appeared in the top 2% of scientists in Elsevier by Stanford University in 2021 and 2022.

The leadership talk was arranged by MIC and AICTE for the HEIs on 30<sup>th</sup> Jan. 23. **Chairman, All India Council of Technical Education (AICTE)** said Research is very important for HEIs and cited the vision of PM Narendra Modi Ji for a self-sufficient (Atma Nirbhar) Bharat. The research, Development and innovation are going to play very important role in this direction. Establishing IICs in Institutions plays a major role, for carrying research work should also be taken up. For promoting research activities in the HEIs, funds also to be made available. He mentioned that innovation will lead to product development. Technology and problem solutions development and will help India to start exporting. He also told about the future plan of AICTE as publishing books in different languages of the country which would also help in understanding of the problem and development of ideas.

The IIC members and Innovation Ambassadors, students attended the program online.





**Title of the Session: My Story - Motivational Session by Successful Entrepreneur**

**Speaker Profile:** Dr. N. V. SRINIVASULU (PROFESSOR), CBIT(A), HYDERABAD.

**Date & Time:** 21/02/2023 & 11:00 am to 01:00 pm.

**Scope:**

A need in the marketplace and works to fulfill it. The term, historically, has been applied to an individual who starts a business, seeing the ability to fulfill that identified need as an economic opportunity.

**SOURCES OF STARTUP IDEAS**

- EXHIBITIONS
- SEMINARS
- WORKSHOPS
- TRADE FAIRS
- NATIONAL AND INTERNATIONAL CONFERENCES
- PROBLEMS FACED BY SOCIETY
- PROBLEMS FACED BY YOU & YOUR SURROUNDING PEOPLE
- TO IMPROVE THE EXISTING TOOLS, MACHINES, MECHANISMS

**Learning Outcome of the session:**

Students understand and learn the Success of Entrepreneurs.

**Number of Students Participated: 107**

**Number of Faculties Participated: 08**

**Poster:**



MHRD'S  
INNOVATION CELL  
(GOVERNMENT OF INDIA)

INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)  
Kokapet (Village), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

44  
years

**My story- motivational session by  
successful entrepreneur/ start-up founder**

**Dr N V SRINIVASULU**  
**PROFESSOR**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CBIT, HYDERABAD-500075, TELANGANA**  
**MAIL: profsrinivascbti@gmail.com**

Photographs of the session:



## ***KINDS OF STARTUP IDEAS***

**Are centered around providing customers**

**Type A**

with an existing product not available in their market.

**Type B**

Involve new ideas, involve new technology.

**Type C**

improved product.

# IMPACT OF VAASTU

- Factors influencing
- Is it really affecting
- How to do survey
- which area to select for survey
- Questionnaire
- Case studies
- Anything related to this in ancient sciences- vedas , puranas etc.

***Started in 1989 and doing research till today***

- Collecting information of accidents, special issues from news papers
- From friends or relatives about incidents like suicide, divorce, achievements.
- How about other occult sciences impact on us like astrology, numerology, stones, color of dresses etc.

## **Case studies**

- Suicidal death
- Accidental deaths
- Major operations like heart attacks, bypass surgery, stunts
- Gyneic problems
- Court litigations
- Financial issues
- Business losses
- IP cases
- Health issues
- Childless issues
- Issues in factories related to unions



**Title of the Session: My Story- Motivation Session by Alumni Talk on “Success Story - Journey from Institute to Industry, Innovations & Opportunities towards Technologies”**

**Speaker Profile:** Mr AnilKumar Kondapalli, Application Engineer JPMC, (Masters at Florida University).

**Date & Time:** 22-12-2022 & 01:00 pm.

**Scope:** To make participants aware of innovation and opportunities in emerging technologies.

**Learning Outcome of the session:**

- The speaker has motivated the students to come up with innovative ideas, prototypes which will be served in attaining sustainable goals.
- Real time examples of Resources in the Subjects and different forms of Product Innovations from the resources were discussed.
- Students were incentivized to endeavor innovation in products, thereby engendering a value addition to the society and the Nation.
- It was additionally stressed that innovation can be utilizable for them to build their dream of becoming an entrepreneur & preparing them for their future life.
- The program benefited the students i.e They were able to understand the meaning of innovation and disruption.

**Number of Students Participated: 58**

**Number of Faculties Participated: 05**

**Poster:**

**CSE - CBIT**

**My Story- Motivation Session by**  
**Alumni Talk on “Success Story - Journey from Institute to Industry, Innovations & Opportunities towards Technologies”**

**CBIT WELCOMES YOU ....**

**Mr AnilKumar Kondapalli (Software Engineer)**

**THURSDAY, Dec 22<sup>nd</sup> 2022 @ 01:00 PM – 03:00 PM**

**Resource Person**  
**Mr AnilKumar Kondapalli**  
Application Engineer JPMC, (Masters at Florida University)  
& CBIT Alumni

**Co-coordinator's :-**  
**Dr. G Vanitha** 9959959585  
**Smt Ch MadaviSudha** 7893131817

Photographs of the session:



**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education Initiative)

**MoE's INNOVATION CELL**  
(GOVERNMENT OF INDIA)

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
(Kakapeet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbil.ac.in)

COMMITTED TO RESEARCH INNOVATION AND EDUCATION **44** years

# NATIONAL SCIENCE DAY CELEBRATIONS

*IIC Calendar Activity*

**Venue: EEE Seminar Hall**      **Date: 28th Feb 2023**      **Time: 01:00 pm**

Address By  
**Prof. P. Ravinder Reddy**  
Principal, CBIT

Session Resource Person  
**Prof. G. Surender Reddy**  
(Chief Mentor & Director, Butterfly Edufields)

### **NATIONAL SCIENCE DAY 2023 THEME:**

The theme of National Science Day 2023 is 'Global Science for Global Wellbeing'.

### **WHO WAS CV RAMAN?**

Dr CV Raman was a renowned scientist who had a bachelor's and master's in Physics from the Presidency College in Madras. Besides working for the government, he competed in numerous science contests. Afterward, he received a scholarship from the Indian government.

### **WHAT IS RAMAN EFFECT?**

When molecules deflect light beams, the Raman Effect occurs, which causes a change in wavelength. When a beam of light traverses a dust-free, transparent sample of a chemical compound, a small fraction of the light emerges in directions other than that of the incident (incoming) beam. Most of this scattered light is of unchanged wavelength. There is, however, a small portion that has wavelengths different from those of the incident light; this is due to the Raman effect.

### **NATIONAL SCIENCE DAY CELEBRATION:**

In celebration of National Science Day, there are public speeches, science movies, science exhibitions, and events based on science themes and concepts.

As part of its celebration of the anniversary of the world's greatest discovery- the Raman effect- the government of India felicitates scientists who have made substantial contributions to science.

### **Celebration of National Science Day.**

The celebration started with Address by Principal, CBIT. He explained how science can be used for the communities, society for their well being and for Industries for making nation self-Reliant. External Resource person Prof. G Surender Reddy Explained about Ideation and development of new product. Physics Depot. Along with their staff and students also celebrated the National Science day.





CV Raman



Hyderabad, TG, India  
 Gandipet, Hyderabad, 500075, TG, India  
 Lat 17.391249, Long 78.320515  
 02/28/2023 03:58 PM GMT+05:30  
 Note : Captured by GPS Map Camera





AI  
Go

## **Title of the Session: Organising Innovation & Entrepreneurship Outreach Program in Schools/Community**

**Speaker Profile 1:** Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT(A)

Former Executive Director Corporate R&D and Corporate Technology Management, BHEL (38 years of Industrial R&D Experience, 3 years Collaboration and Joint Venture)

**Speaker Profile 2:** Dr. B.V.S Rao, Assistant Professor, Mechanical Engineering Department.

**Date & Time:** 25-02-2023 & 8:30 am.

**Link:** <https://www.linkedin.com/in/dr-umakanta-choudhury-94a89a131/details/skills/?detailScreenTabIndex=0>

### **Scope:**

An outreach program in schools or the community is a way to engage with and support individuals and groups who may not have access to certain resources or opportunities.

### **Learning Outcome of the session:**

- To increase awareness of a particular issue, improve health outcomes, or provide educational opportunities.
- This could be a specific demographic, such as low-income families or seniors, or a geographic area, such as a particular neighborhood or region.

**Participant Students attended: 47**

**Participant Faculty attended: 07**

### **Poster:**



The poster features logos for MoE's Innovation Cell, Institution's Innovation Council, and Chaitanya Bharathi Institute of Technology (A) at the top. The main title is 'Organising Innovation & Entrepreneurship Outreach Program in Schools/Community'. Below the title, it lists the speakers: Dr. U.K. Choudhury & Dr. B.V.S Rao. It also includes their titles and affiliations: Prof. & Director, Incubation & Innovation, CBIT; EX. Executive Director, R&D & Corporate Technology Management, BHEL; and Assistant Professor, Mechanical Engineering Department. The venue and date are listed as Kokapet High School, 25<sup>th</sup> Feb 2023, @ 8:30 am – 01:00 pm. The poster also includes accreditation logos and the 44 years logo.



**Photographs of the session:**



Report on guest Lecture for IV Semester ECE department held on 20/04/2023,  
at N-Block seminar hall

**Title: Guest Lecture held at CBIT for ECE students in collaboration with  
Chaitanya Sattva: A UHV club of CBIT and YOGANTA TECHNOLOGIES PVT.LTD.**

The department of ECE of CBIT college successfully organized an informative session with theme “**The Nature Vs Nurture: Human Growth and Development**”.

- **Dr. Srirama Mandava**, Certified International Yoga Teacher, Yoga Therapist delivered a talk to the students. In her speech she also Enlightened the student about the theme of the session as Nature refers to the genetic or hereditary factors that influence a person's traits and behaviour. These include things like physical appearance, intelligence, and personality traits. On the other hand, nurture refers to the environmental factors that shape a person's behaviour and characteristics, such as family upbringing, social interactions, and cultural influences. She also explained that It is important to recognize the interplay between nature and nurture in shaping a person's development and behaviour. By understanding the role of both factors, we can gain a better understanding of human behaviour and improve our ability to promote positive outcomes. Her session is very interactive, she made to participate every student by giving small exercises and meditative techniques.
- **Mr. Raushan Kumar**, Founder and CEO of Yoganta and **Mr. Chakradhar Reddy**, Co-Founder & COO explained about the Services provided by their company Yoganta Technologies Pvt.Ltd. for the student community.
- Dr. D. Krishna Reddy, HOD, Dept. of ECE, Dr. G.Suresh Bebu, Professor, Dept.of EEE, Faculty coordinator Chaitanya Sattva: A UHV Club, Smt.A. Satyavati, Assistant Professor, Dept. of ECE, event Coordinator Present in this event.  
Around **193 students** and **6 staff** are attended this session.

Account details of the Resource Person:

Name: Chakradhar Reddy. O., Co -Founder & COO- Yoganta

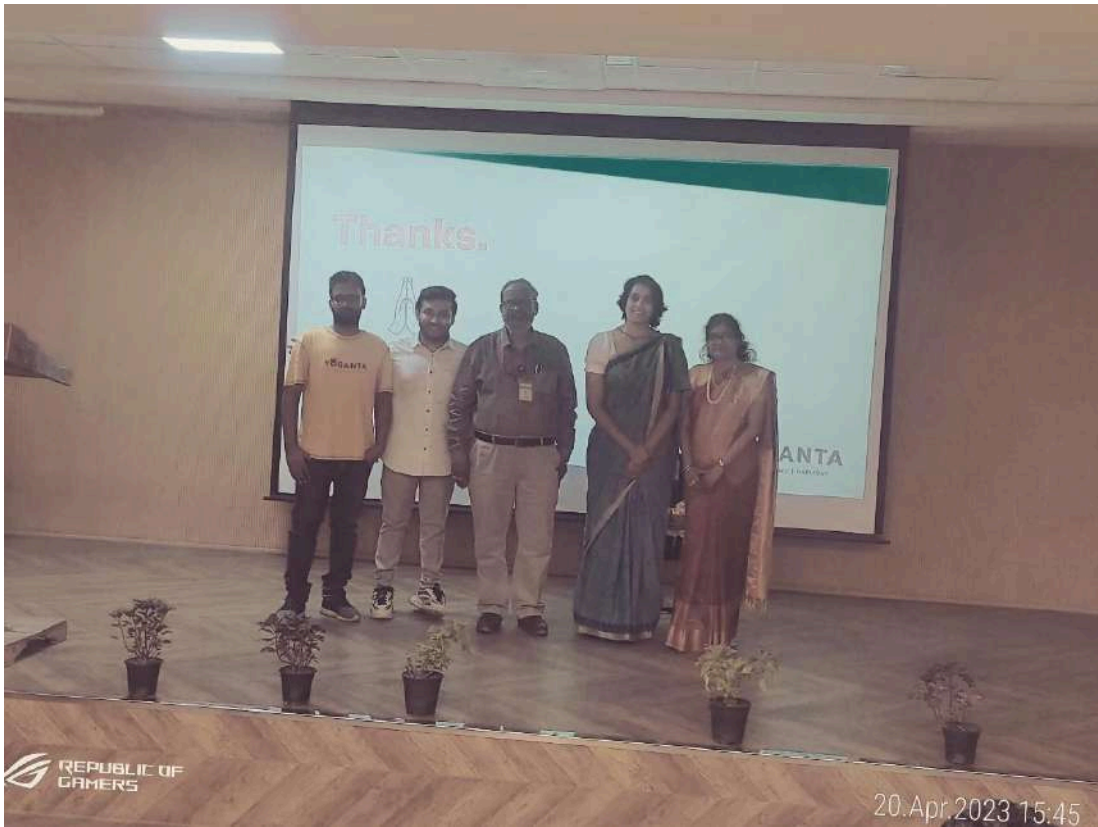
Account No.- 0446104000225809

IFSC: - IBKL0000446

IDBI bank









*Report on*

**A Three Day MATLAB Training Program**

**on**

**“Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxes”**

**3<sup>rd</sup> – 5<sup>th</sup> July, 2023**

A Three-Day MATLAB Training Program on "Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxes" had been organized by the departments of ECE and EEE at Chaitanya Bharathi Institute of Technology, Hyderabad, from 3rd to 5th July 2023.

The event had been graced by esteemed dignitaries, including Prof. C. V. Narasimhulu, the Chief Patron. Prof. D. Krishna Reddy, the Head of the ECE Department, and Prof. M. Balasubba Reddy, the Head of the EEE Department, had also contributed to the program's success as the Chief Advisors.

The coordination of the training program had been effectively managed by Dr. T. Aravinda Babu, an Assistant Professor in the ECE Department, and Dr. P. Vijay Babu, an Assistant Professor in the EEE Department.

During the Three-Day MATLAB Training Program, participants had been immersed in various cutting-edge technologies, acquiring hands-on experience in Simulink for dynamic system modeling, HDL code generation, medical imaging, optimization techniques, electric vehicle modeling, and the application of machine & deep learning toolboxes. Upon the program's conclusion, participants had been equipped with invaluable skills and knowledge, empowering them to tackle real-world engineering challenges with confidence and innovation.

The success of the training program had been attributed to the combined efforts of the organizers and the active participation of the participants, creating an enriching environment for skill development and knowledge sharing.

Overall, the Three-Day MATLAB Training Program had been a resounding success, leaving a lasting impact on the attendees and furthering their understanding and proficiency in MATLAB applications across various domains.

**Preamble:**

We warmly welcome you to our comprehensive training program, which encompassed Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicles, and Machine & Deep Learning Toolboxes.

Throughout the program, participants gained hands-on experience and expertise in these cutting-edge technologies, enabling them to excel in diverse engineering applications. Our team of experienced instructors was dedicated to providing participants with the knowledge and skills needed to effectively tackle real-world challenges.

Whether attendees were seasoned professionals seeking to enhance their skillset or students eager to explore the exciting world of engineering, this program was thoughtfully designed to cater to their specific learning needs. They delved into the intricacies of Simulink



for modeling and simulation, mastered the art of HDL code generation for hardware implementations, explored the fascinating realm of Medical Imaging for healthcare advancements, harnessed the power of Optimization techniques for system enhancement, dived into the promising domain of Electric Vehicles, and discovered the potential of Machine & Deep Learning Toolboxes for developing intelligent systems.

Throughout the journey, participants had access to cutting-edge tools, resources, and a collaborative learning environment that fostered innovation and creativity. Our commitment was to equip them with the knowledge and expertise to stand out in today's fast-paced technological landscape.

We are delighted to witness the transformation of those who joined us in this program, as they are now equipped with the skills and knowledge to shape a better, more technologically advanced future. We express our sincere gratitude for your active participation in this exciting learning adventure!

In view of the above, we are pleased to announce that we have successfully conducted a training program on Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicles, and Machine & Deep Learning Toolboxes. The activities scheduled for the 3-day program are detailed below, and the timetable is enclosed at the end.

**Day 1: (03-07-2023)**

**Slot 1: 10:00 AM to 1:00 PM**

**Dynamic System Modeling with Simulink:**

- Dynamic System Modeling with Simulink
- Importance of Auto Solver
- Embedding MATLAB Function in to Simulink Model
- Running Simulink Model from MATLAB
- Accessing MATLAB Workspace by Simulink

**Slot 2: 02:00 AM to 04:30 PM**

**HDL Code Generation from MATLAB and Simulink:**

- Introduction to HDL Coder Toolbox
- HDL Code Generation from MATLAB
- Generate HDL Code from Simulink Model
- Create HDL-Compatible Simulink Model
- HDL Code Generation Workflow
- HDL Code Generation for Image Enhancement

**Day 2: (04-07-2023)**

**Slot 1: 10:00 AM to 1:00 PM**

**Medical Imaging with MATLAB:**

- Introduction to Medical Imaging
- Importing, pre-processing and analyzing Radiology and other Images

## Applications of Deep Learning

### Participant Strength

We are delighted to share that our Three-Day MATLAB Training Program successfully concluded with an impressive turnout of 35 participants from diverse departments, including EEE, ECE, BIO TECHNOLOGY, Mechanical, and Artificial Intelligence and Data Science, as well as Artificial Intelligence and Machine Learning (AI&ML).

Throughout the program, participants actively engaged in various hands-on sessions and interactive discussions, fostering a dynamic learning environment. Their enthusiasm and dedication resulted in exceptional outcomes, with each participant gaining valuable insights and practical skills in MATLAB and its applications.

We are proud of the accomplishments achieved during the training, which have equipped the participants with the tools to excel in their respective domains. The diverse backgrounds and expertise brought by the attendees further enriched the learning experience, creating a vibrant atmosphere for knowledge exchange and collaboration.

We extend our heartfelt gratitude to all the participants for their active participation and commitment to making this training program a resounding success. We are confident that the knowledge gained during these three days will prove invaluable in their academic and professional pursuits.

As we move forward, we look forward to organizing more such enriching programs and continuing to foster a spirit of exploration and innovation among our participants. Once again, thank you to everyone involved in making this training program a truly rewarding experience. Here's to a future filled with continued growth and success!

### Speaker Profile:

Mr. J. Prem Kumar is a highly skilled and accomplished Product Manager for MathWorks Products at Capricot Technologies Private Limited. With a wealth of expertise in various fields, he has made significant contributions in Dynamic System Modeling, Embedded Systems, Robotics, Image Processing, Speech Processing, Deep Learning, and Computer Vision.

Having served in Capricot Technologies for over a decade, Mr. Kumar brings a deep understanding of the industry and its evolving trends. Prior to joining Capricot Technologies, he garnered valuable experience in the Semiconductor Manufacturing Industry, further enriching his knowledge in the tech domain.

Mr. Kumar's educational background boasts a master's degree in VLSI System Design, showcasing his proficiency in this specialized area. His strong foundation is further reinforced by a bachelor's degree in Electronics & Communication Engineering.

Presently, as the Product Manager in the MathWorks Education Solutions division at Capricot Technologies Pvt. Ltd., Mr. Kumar continues to lead with exceptional expertise and dedication. His passion for teaching and sharing knowledge is evident through his 10+ years of experience as a MATLAB Trainer within the organization.



Mr. Kumar's impressive profile and vast experience make him an exceptional speaker, and his contributions to the field of technology and education have left a lasting impact on both the industry and his peers. His valuable insights and extensive knowledge are sure to enrich any event or training session he graces with his presence.

### **Summary of Outcomes:**

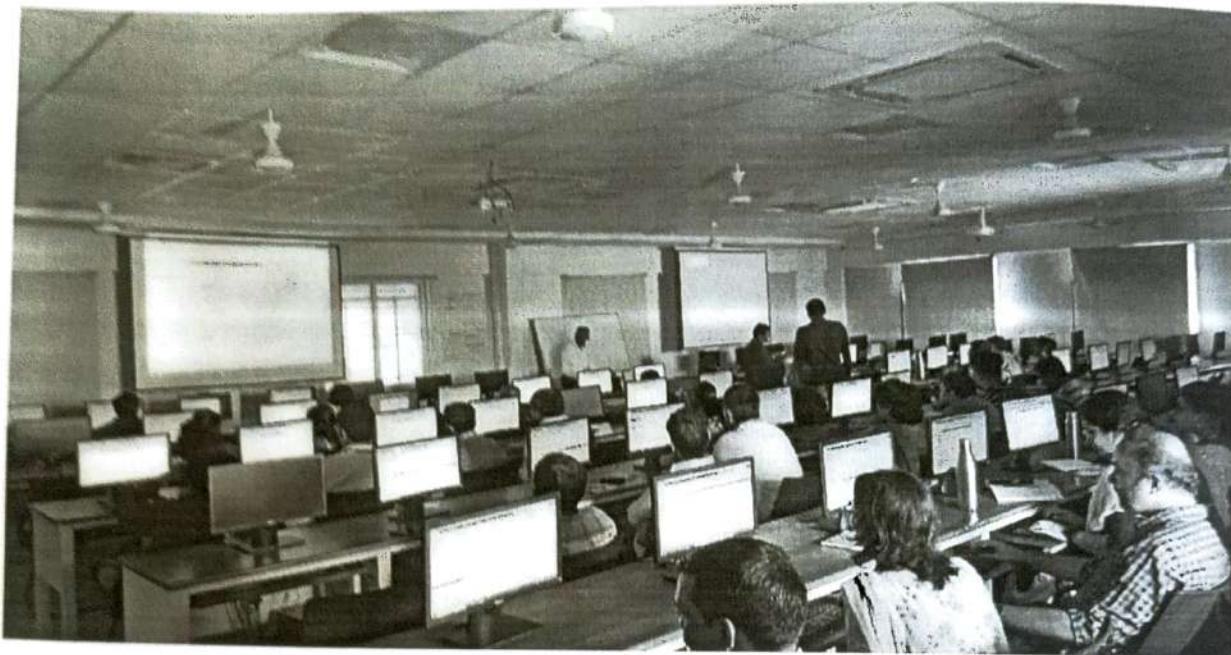
Participants in this comprehensive training program gained valuable knowledge and skills in various cutting-edge technologies. The program covered the following topics:

- **Dynamic System Modeling with Simulink:** Participants learned how to model dynamic systems using Simulink, the importance of auto solver, embedding MATLAB functions in Simulink models, running Simulink models from MATLAB, and accessing MATLAB workspace by Simulink.
- **HDL Code Generation from MATLAB and Simulink:** Participants were introduced to the HDL Coder Toolbox and learned to generate HDL code from MATLAB and Simulink models. They also created HDL-compatible Simulink models, explored the HDL code generation workflow, and applied HDL code generation for image enhancement.
- **Medical Imaging with MATLAB:** Participants gained insights into medical imaging, including importing, pre-processing, and analyzing radiology and other medical images. They learned to label 3-D medical images using the Medical Image Labeler and explored neural network concepts for medical imaging.
- **Optimization with MATLAB:** Participants were introduced to the Optimization Toolbox and learned about optimization theory. They also explored the Global Optimization Toolbox and compared its features with the standard Optimization Toolbox.
- **Electric Vehicles with MATLAB and Simulink:** Participants received an introduction to electric vehicles (EV) using MATLAB and Simulink. They learned to model a generic motor and a BLDC motor for EV applications. Additionally, they acquired skills in interfacing hardware with MATLAB Simulink and collecting sensor data for controlling electric vehicles.
- **Machine Learning and Deep Learning with MATLAB:** Participants delved into data collection and datasets used for machine learning. They learned about feature extraction in signals, supervised and unsupervised learning methods, and the application of machine learning in digital signals and images. The training covered challenges in feature extraction in machine learning, architecture of Convolutional Neural Networks (CNN), and designing and training CNNs using the Deep Network Designer App. Participants also explored the differences between machine learning and deep learning and discovered various applications of deep learning.

Overall, this training program empowered participants with a diverse skill set, enabling them to apply these technologies effectively in their respective fields and contribute to advancements in engineering and technology.



Snapshot in the programs



- 6
- Label 3-D Medical Image using Medical Image Labeler
  - Neural Network Concepts for Medical Imaging

**Slot 2: 02:00 AM to 04:30 PM**

Optimization with MATLAB:

- Introduction to Optimization Toolbox
- Optimization Theory Overview
- Introduction to Global Optimization Toolbox
- Comparison between Optimization & Global Optimization Toolbox

**Day 3: (05-07-2023)**

**Slot 1: 10:00 AM to 1:00 PM**

Electric Vehicles with MATLAB and Simulink:

- Introduction to EV with MATLAB and Simulink
- Modeling Generic Motor for EV
- Modeling BLDC Motor for EV
- Interfacing Hardware to MATLAB Simulink
- Collecting Sensor Data to Control Electrical Vehicle

**Slot 2: 02:00 AM to 04:30 PM**

Machine Learning and Deep Learning with MATLAB

- Data Collection and Datasets used for Machine Learning
- Feature Extraction in Signals
- Supervised Learning and Unsupervised Learning
- Application of Machine Learning in Digital Signals
- Application of Machine Learning in Digital Images
- Challenges in Feature Extraction in Machine Learning
- Architecture of Convolution Neural Network (CNN)
- CNN Design and Training with Deep Network Designer App
- Comparison between ML and DL

# మ్యాట్ ల్యాబ్ లో ముగిసిన అధ్యాపకుల శిక్షణ

కళాశాలలో నిర్వహించిన అధ్యాపకుల శిక్షణ కార్యక్రమం ముగిసిన సందర్భంగా కళాశాల అధ్యక్షులు, అధ్యాపకులు, విద్యార్థులు కలిసి ఫోటో తీసుకున్నారు. ఈ సందర్భంగా అధ్యాపకులు అభివృద్ధి చెందడానికి శిక్షణ అవసరం అని తెలిపారు. కళాశాల అధ్యక్షులు మాట్లాడుతూ, అధ్యాపకులు విద్యార్థులకు ఉత్తమ విద్యను అందించడానికి ప్రయత్నించాలని కోరారు. ఈ సందర్భంగా అధ్యాపకులు అభివృద్ధి చెందడానికి శిక్షణ అవసరం అని తెలిపారు. కళాశాల అధ్యక్షులు మాట్లాడుతూ, అధ్యాపకులు విద్యార్థులకు ఉత్తమ విద్యను అందించడానికి ప్రయత్నించాలని కోరారు.

విద్యార్థులు అభివృద్ధి చెందడానికి ఈ కార్యక్రమం ద్వారా కళాశాలలో వదిలే అంతర్గత శిక్షణ కార్యక్రమాలు అధ్యాపకులు ఎంతో ఆసక్తిగా ఆనందించారు.



**సమూహ** Kalam nigha 08-07-2023 Page 4 08 Jul 2023  
<https://epaper.kalamnigha.in/clip/19912>

1. Dr. T. Aravinda Babu  
Assistant Professor, Department of ECE
2. Dr. P. Vijay Babu  
Assistant Professor, Department of EEE





### A Brief Report

#### On Tech-TrekX by GDSC-CBIT and IEEE-CBIT

**Date:** 4th April 2023

**Duration:** 6 hours

#### Details of the event:

On 4th April 2023, the Google Developer Student Club (GDSC) CBIT and the Institute of Electrical and Electronics Engineering (IEEE) Student Branch jointly organized a highly successful day-long event at Chaitanya Bharathi Institute of Technology. The collaborative event was named 'Tech-TreKX' and was attended by over 700 participants who were eager to learn about the importance of networking and showcase their skills in web development.

The event began with an informative speaker session that featured prominent speakers in the field of career development. Sri Charan Lakkaraju, Founder and CEO of StuMagz, discussed the latest trends and technologies in career development, including new placement opportunities and industry trends. The second speaker, Mr. Sandeep Kumar, Founder of Being Zero, emphasized the importance of competitive programming and technological advancements. The session was highly engaging, with attendees actively taking notes and asking questions throughout.

Following the speaker session, the web development contest commenced. Participants were provided with a set of guidelines and requirements for their websites and had a limited amount of time to design and develop their sites. The contest was highly competitive, with participants showcasing their creativity and technical skills in building their websites. At the end of the contest, the technical team evaluated each website based on its design, functionality, and overall user experience. The top website was selected as the winner of the contest. The event was highly beneficial for the participants, who gained valuable knowledge and hands-on experience in web development.

## A Report on

### World Intellectual Property Day

Theme:

Women and IP: Accelerating innovation and creativity

26- 04 - 2023

Organised by EDC,IIC-CBIT

## Poster:

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education Initiative)

**MoE's INNOVATION CELL**  
(GOVERNMENT OF INDIA)

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **44** years

# WORLD INTELLECTUAL PROPERTY DAY

April, 26<sup>th</sup> 2023, 11:00 am.  
N-Block Seminar Hall

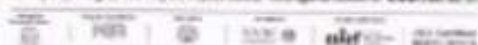
- Address by Principal CBIT (A).
- Presentation on IPR Filed, Published and Granted for CBIT. Patents and copyrights filed by Women Inventors and other inventors.(by Advisor, I&I) , CBIT (A).
- Lecture on “Accelerating innovation and creativity, Innovation & IPR-innovating for Better future” by Senior Patent Attorney, Mr. Tapan Brahma.





**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Balakrishna Nagar, Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in



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EDUCATION

**44**  
years

No.CBIT/062/Admn./2023

Dt.25.04.2023

## CIRCULAR

Sub: Celebration of World Intellectual Property Day on 26<sup>th</sup> April, 2023  
Theme: Women and IP: Accelerating innovation and creativity

World Intellectual Property Day is celebrated on 26<sup>th</sup> April 2023 to raise awareness about Intellectual Properties and how Patents, Copyright, Trademark etc., are protected. This year, the theme of World Intellectual Property is "Women and IP: Accelerating Innovation and Creativity". The motive behind this day is to make people aware of intellectual property and how to protect them. World Intellectual Property Day is an opportunity for young people to find out how IP rights can support their goals, help transform their ideas into reality and how to create IPRs.

CBIT's Institute Innovation Cell and EDC Cell will be arranging the IP sessions on Patent, Design, trademarks, copyright, geographical indications, trade secrets etc., which will help the students and faculty to understand about the role that intellectual property (IP) rights play in encouraging innovation and creativity. The following programs will be arranged off line in the N-Block Seminar Hall.

- 1) Address by the Principal, CBIT
- 2) Presentation on IPR Filed, Published and Granted for CBIT. Patents and copyrights filed by Women Inventors. (by the Advisor-I&I, CBIT)
- 3) Lecture on "Accelerating innovation and creativity & Innovation and IPR-innovating for Better future" by Senior Patent Attorney, Mr.Tapan Brahma, (the speaker will join on line)

As per the guidelines of Ministry of Education Innovation Cell for the CBIT's IIC is organising the session in order to motivate the faculty and students to file more IPRs. For any further information in this regard, contact Dr. Vanita Guda, Asst. Prof., Dept. of CSE, Mobile : 9381281477, and Ms. V. Sandhya Reddy, Asst. Prof., Dept. of Mech. Engg., Mobile: 9701540189.

All the interested Faculty and Students are advised to attend the program from 11:00 AM to 12:30 PM tomorrow without detrimental to class work. Students who can't be accommodated in the Seminar Hall, can join online for the session. Link for joining the Session : <https://cbtihyd.webex.com/cbtihyd/j.php?MTID=ma60b67ff8a5ae566520fa5e391da75ce>

PRINCIPAL

To  
All the Advisors, Directors, Associate & Joint Directors, Heads of the Departments / Sections, CoE, Librarian, Head-HR, Asst. PD and PRO, for information and advised to arrange for circulation among all the Faculty and Students under their control.

## **Brief profile of Speaker:**

Mr Tapan Brahma

Experience

Founder, Director, ExiLyze Intellectual Services Private Limited

Senior Manager, Legal Advantage LLC

Assistant Manager, SciTech Patent Art

A seasoned, versatile, and passionate professional specializing in Intellectual property research, drafting, Filing, analytics, and litigation support with over 18 years of in-depth experience in all things IPR.

I bring a successful track record of specialist analytical skills gained through 5000+ IP/Business related projects. I am proficient in Intellectual property matters and have worked with attorneys and innovators across the globe, and am adept to identify evolving technologies and effectively connect the dots.

An Indian Patent Agent, I have Master's degrees in Chemistry and Polymer Technology and a diploma in patent law. My extreme familiarity with all current intellectual property trends and knowledge management market is a definite asset. Additionally, I'm known to continuously improve performance standards, while ensuring client objectives are met.

### **Scope:**

1. To promote awareness about patents, copyrights, trademarks, and design
2. To identify the criteria for a product/process to be patentable
3. Role of intellectual property rights to stimulate innovation and creativity.
4. To help younger generation to focus on shifting to a more suitable future by identifying the role of IP

### **Learning Outcome of the session:**

1. Identify and distinguish different forms of IP
2. Identify and assess criteria to be met for a particular IP
3. Statutory laws available to protect IP
4. The role of IP in the development of a country

**Number of Students Participated:199**

**Number of Faculties Participated: 09**

**Photographs of the session:**



GPS Map Camera

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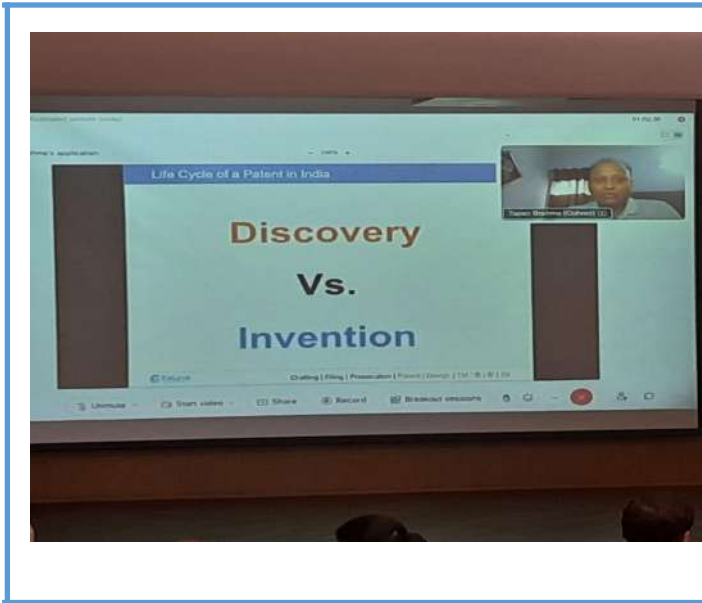


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26-04-2023

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12.	Bhavana Prasad Reddy	122	"		7075079963	Bhavana
13.	Harsh Guvraaj Chavan	129	"		8096368493	Harsh
14.	K Manish	107	"	manishkanaparth@gmail.com	8674092903	K Manish
15.	Tharun Kumar	134	"	TharunKumar@gmail.com	7773721507	Tharun Kumar
16.	Srinath Chembale	94	"	SrinathChembale@gmail.com	8985932406	Srinath
17.	M. Chaitanya Krishna	114	"	ChaitanyaKrishna@gmail.com	7569410002	M. Chaitanya Krishna
18.	R. Chaitanya	124	"		9969696910	R. Chaitanya

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)


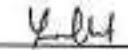


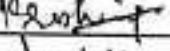
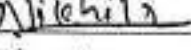

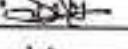
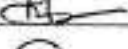

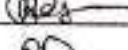


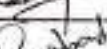
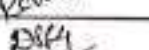
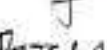



Gandipet, Hyderabad- 500 075

World Intellectual Property Day- 2023

Theme – Women and IP: Accelerating innovation and creativity

Organised by Entrepreneurship Development Cell, IIC -CBIT

26-04-2023

S.NO	Name	Roll No	Department	Mail id	Contact no	Signature
1.	Sridhar	160121735092	ECE-2			
2.	Yeshwanth	160121735123	ECE-2			
3.	Shiva Shankar	160121735097	ECE-2			
4.	Charith	160121735124	ECE-2			
5.	Krishnaveni	160121735083	ECE-2			
6.	Nikhila	160121735072	ECE-2			
7.	Rinmas	160121735088	ECE-2			
8.	K. Shiva Shankar	160121735105	ECE-2			
9.	Harithkesh	160121735103	ECE-2			
10.	CH. psaveen	160121735096	ECE-2			
11.	K. Raju	160121735107	ECE-2			
12.	K. Dinesh	160121735125	ECE-2			
13.	Sricharan	160121735101	ECE-2			
14.	Ch. Adithya	160121735093	ECE-2			
15.	V. Rambabu	160121735133	ECE-2			
16.	D. Saikrishna	160121735099	ECE-2			
17.	A. Varun	160121735090	ECE-2			
18.	M. Sri Karthikya	160121735110	ECE-2			
19.	N. Siddhartha	160121735117	ECE-2			





World IP Day Celebration 26-4-23

Sl No	Name	Roll No/Staff No	Signature
1	Tanish G	160120733056	Tanish G
2	Ch. Gokul	160120733021	Ch. Gokul
3	V. Harshith	160120733054	Harshith..
4	M.G. Shabaz	160120733050	M.G. Shabaz
5	K. Saketh	160120733049	Saketh
6	Ameen	160120733027	Ameen
7	Abdul Fodeer	160120733051	Fodeer
8	Vikram	160120733059	Vikram
9	Mayank	160120733301	Mayank
10	Vishnu R	160120733060	Vishnu
11	Chetan P	160120733027	Chetan
12	Rishik	160120733084	Rishik
13	Sanishita	160120748010	Sanishita
14	Snigdha	160120748015	Snigdha
15	Chetan	160120748026	Chetan
16	Adarsh P	160120733021	Adarsh
17	Adarsh A	160120733022	Adarsh
18	Aman	160120733023	Aman
19	Dhanush	160120733028	Dhanush
20	Philip	160120733086	Philip
21	G.G. Mubari	160120733045	Mubari
22	Vinay	160120733181	Vinay
23	Satvik	160120733049	Satvik
24	Snigdha	160120733305	Snigdha.
25			





**Title of the Session: Workshop on Entrepreneurship Skill, Attitude & Behaviour Development.**

**Speaker Profile:** Dr. P. Prabhakar Reddy, Professor & Hod of Dept. Mechanical Engineering, CBIT-(A).

**Date & Time:** 24-02-2023 & 09:10 am.

**Link:** <https://www.linkedin.com/in/prabhakar-reddy-p-6585521aa/>

**Scope:**

To create awareness among young minds about entrepreneurship and relevant skills, attitudes and behavior.

**Learning Outcome of the session:**

Students gain an awareness about entrepreneurship, entrepreneurial journey and relevant skills, attitudes and behavior.

**Number of Students Participated: 58**

**Number of Faculties Participated: 05**

**Poster:**



The poster features a light green background with a decorative orange arrow pointing right on the left side. At the top, it displays logos for MHRD's Innovation Cell, Institution's Innovation Council, and Chaitanya Bharathi Institute of Technology (A). The main title is "Workshop on Entrepreneurship Skill, Attitude & Behaviour Development." Below this, the speaker is identified as "Dr. P. Prabhakar Reddy, Professor & Hod of Dept. Mechanical Engineering, CBIT-(A)." A box at the bottom provides the venue and time: "Venue: MECH-Seminar Hall, 24<sup>th</sup> Feb 2023, @ 09:10 am – 11:30 pm."



Photographs of the session:





## Entrepreneurship Skills

A great entrepreneur must be able to **effectively communicate, sell, focus, learn, and strategize**. An ability to continuously learn is not just a key entrepreneurial skill, but also a very valuable life skill. Growing a business requires a sound strategy based on inherent business sense and skills

## Entrepreneurship Skills

- Creative thinking. Creativity leads to invention, which leads to opportunity
- Critical thinking
- Effective communication
- Financial knowledge
- Smart business management
- Valiant
- Stress management
- Time management

## Behaviour

- The way in which one acts or conducts oneself, especially towards others
- The way in which an animal or person behaves in response to a particular situation or stimulus.
- The way in which a machine or natural phenomenon works or functions

## Personality determinants

- The word **Personality** is derived from a Greek word "**persona**" which means "**to speak through**"
- **Personality** is the fundamental and foremost **determinant** of individual behaviour
- **Personality** can be defined as those inner psychological characteristics that both determine and reflect how a person think and act in an environment
- **Personality** is a result of the combination of four factors, i.e., physical environment, heredity, culture, and particular experiences

# Personality determinants

- **Biological Factors**

- Heredity
- Brain
- Biofeedback
- Physical Features

- **Cultural Factors**

- Among the factors that influence personality formation is the culture in which **we are raised, early conditioning, norms prevailing within** the family, friends and social groups and other miscellaneous experiences that impact us. The **culture largely determines attitudes towards** independence, aggression, competition, cooperation and a host of other human responses.

- **Family Factors**

- Whereas the culture generally prescribes and limits what a person can be taught, it is the family, and later the social group, which selects, interprets and dispenses the culture. Thus, the family probably has the most significant impact on early personality development.

- **Social Factors**

- There is increasing recognition given to the role of other relevant persons, groups and especially organizations, which greatly influence an individual's personality. This is commonly called the socialization process.

- **Situational Factors**

- Human personality is also influenced by situational factors. The effect of the environment is quite strong. **Knowledge, skill and language** are obviously acquired and **represent important modifications of behavior**.

## Personality determinants





# Abraham Maslow's Hierarchy of Needs Theory



## Time management matrix

	Urgent	Not Urgent
Important	<p>I</p> <p><b>Fire Fighting</b></p> <p>Crises Pressing problems Deadline-driven projects</p>	<p>II</p> <p><b>Quality Time</b></p> <p>Prevention, capability improvement Relationship building Recognizing new opportunities Planning, recreation</p>
Not Important	<p>III</p> <p><b>Distraction</b></p> <p>Interruptions, some callers Some mail, some reports Some meetings Proximate, pressing matters Popular activities</p>	<p>IV</p> <p><b>Time Wasting</b></p> <p>Trivia, busy work Some mail Some phone calls Time wasters Pleasant activities</p>

# Leadership

- The action of leading a group of people or an organization
- Ability to influence others in order to achieve some specific goals
- The state or position of being a leader
- Leadership is **the ability of an individual or a group of individuals to influence and guide followers or other members of an organization.**

## Characterstics

What do leaders do?

- Influence
- Motivate and Inspire
- Help others to realize their potential
- Help to nurture the excellence around them
- Lead by example
- Set the tone and standards
- Most of the time, are selfless

## Go with the flow approach

- Emphasis is placed on the congruity of inner self and once harmony with the flow of nature
- All living beings have certain vibrations and natural body rhythms. The modern style of living and the tools used are working against the natural rhythm, creating serious illness and problems.
- Learning to go with the flow and getting back to the natural rhythm of living will help us in achieving spontaneity and serendipity which is natural to our being.

### Strengths

- Sensitizes us to the values of timeless moments and creates more of them in our lives.
- Moves us away from the dominance of "urgent".
- It creates and encourages internal and external harmony.

### Weaknesses

- Vital elements such as vision, purpose, and balance are frequently missing.
- It is reaction to urgency addiction, an escape rather than aid to creating quality of life.

## The recovery approach

- Influenced by an early role model of family culture and individual will become a "perfectionist".
- Afraid to delegate
- Tends to micro manage
- Spends an inordinate amount of time on the projects beyond the effective utilization of the resources.
- Over committed and over worked out of fear of rejection



# The Recovery approach

## Strengths

- Helps identify nature and sources of dysfunctional time management habits.
- Leads to greater self awareness and prepare people to make fundamental changes and improvements

## Weaknesses

- The suggested methods for recovery are very much varied.
- Does not provide for confident response to higher priorities?
- Does not recognize extrinsic realities that govern quality of life.
- Priority is often defined by urgency, circumstances or other people.

## **Title of the Session: Workshop on IPR Awareness, Patent & Copyright Procedure, Trade mark, Patent drafting, Patent Office Guidelines.**

**Speaker Profile:** Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT(A).

Former Executive Director Corporate R&D and Corporate Technology ,angement, BHEL ( 38 years of Industrial R&D Experience , 3 years Collaboration and Joint Venture)

<https://www.linkedin.com/in/dr-umakanta-choudhury-94a89a131/Experience>

**Date & Time:** 21-02-2023 & 02:15 pm.

**Link:**<https://www.linkedin.com/in/dr-umakanta-choudhury-94a89a131/details/skills/?detailScreenTabIndex=0>

### **Scope:**

Which includes patents, copyrights, trademarks, and trade secrets. These rights allow the creators of intellectual property to protect their inventions, creative works, and branding.

- Patents protect inventions, which can be processes, machines, compositions of matter, or improvements thereof.
- Copyrights protect creative works, such as literary, musical, and artistic works.
- Trademarks protect branding, such as logos and slogans, that distinguish a company's products or services from those of its competitors.
- Patent drafting is the process of creating a patent application that describes the invention in detail and meets the requirements of the Patent Office.
- Patent Office guidelines are rules and procedures established by the Patent Office that govern the filing and examination of patent applications.

### **Learning Outcome of the session:**

In order to increase IPR awareness, workshops and training sessions can be held to educate inventors, creators, and business owners about the importance of protecting their intellectual property and the procedures involved in obtaining and enforcing IPR.

Number of Students Participated: 47

Number of Faculties Participated: 03

Poster:

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education Initiative)

**MoE's INNOVATION CELL**  
(GOVERNMENT OF INDIA)

**CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION **44** years

**Workshop on IPR Awareness, Patent & Copy right procedure, Trade mark, Patent drafting, Patent Office guidelines**

Venue: ECE, Room No 305  
Date: 21-2-23 & Time: 2:15 PM

**Following aspects will be covered.**

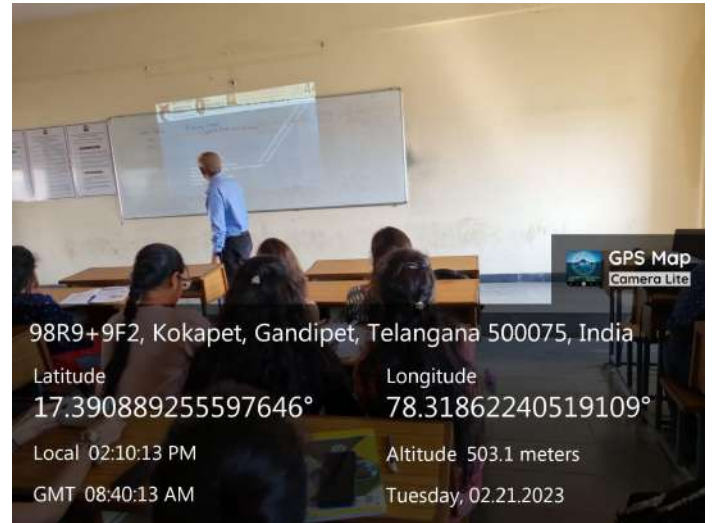
- Introduction and Why should we file IPRs
- Types of IPR (Patents, Copyright, Trademark, GI, Design Patent)
- Frequently asked Qns.
- Procedure and guidelines to file IPRs
- Examples

**Speaker**

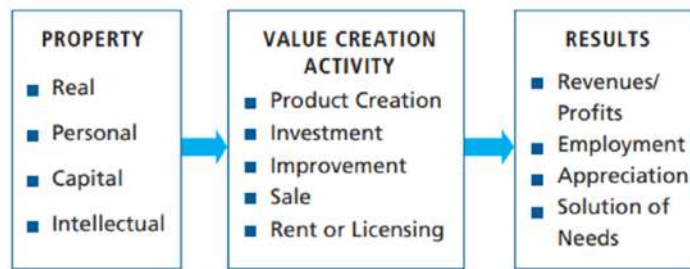
**Dr. U.K. Choudhury,**  
Prof. & Director, Incubation & Innovation , CBIT EX.  
Executive Director, R&D & Corporate Technology Management , BHEL.



**Photographs of the session:**



Intellectual Property (IP) is the name given to patents, trademarks, copyrights, industrial designs and other types of intangible property that arise from creations of the mind and in their broadest sense have no physical form.



Like all types of property, IP is owned and can generate income. For this reason IP is considered an asset. It is often the result of investment and should generate a return of one sort or another. IP differs from other types of property because it has no physical form and comes into being because of human intelligence, creativity and imagination.

There are different types of IP each with its own unique laws. IP is sometimes divided into two general categories, "industrial property" and "copyright." Industrial property refers to assets created primarily for the advancement of technology, industry and trade such as patents (inventions), industrial designs, trademarks, service marks, trade secrets and geographic indications of origin.<sup>1</sup> The most common forms of IP are:

The parts of the patent application typically include the Background, Summary, Detailed Description and Drawings, Claims, and Abstract. The patent agent is unlikely to draft the patent application in this order and should ordinarily draft the claims first. This is because the claims are the heart of a patent. In reading a patent application:

- the Background section sets the stage for what is to come;
- the Summary section mirrors the claims;
- the Detailed Description and Drawings enable the claims by providing a sufficient technical disclosure of the invention;
- the Claims define the scope of exclusive protection, and
- the Abstract is primarily an aid for patent searchers and normally receives very little substantive review.

All these sections will be explained in more detail below.

Once a patent agent understands the invention he can begin preparing the patent application. The parts of the application are generally:

- claims
- detailed description (or specification)
- drawings
- background
- abstract
- summary

A patent agent will want to consider the patent application's title fairly early. This title should broadly describe the invention. However, titles are not generally examined. Occasionally a patent examiner will decide that a title is not descriptive of the invention. It is best to avoid being overly narrow in the invention's title, although the title should sufficiently indicate the subject matter of the invention.

For Educational Purposes

The elements in a patent claim must have the correct antecedent basis. This means that the first time an element is introduced, the indefinite article "a" or "an" should be used. Later when referring back to previously introduced elements, the definite article "the" or "said" should be used. Proper antecedent basis is not just a good idea; like gravity, it is the law. The following set of claims will help explain proper antecedent basis:

1. *A device, comprising:  
a pencil; and  
a light attached to the pencil.*
2. *The device recited in claim 1 wherein the light is detachably attached to the pencil.*
3. *The device recited in claim 2 wherein the pencil is red in color.*

Notice that in Claim 1, we introduced the "pencil" for the first time by referring to it as "a pencil." In the same claim, we also introduced the light for the first time as "a light." However, when we wanted to specify that the light was attached to the pencil, we referred to the pencil as "the pencil." The use of the word "the" signaled that the pencil was the one we had previously defined in the claim. Otherwise, there would be ambiguity as to whether it was the same pencil or another pencil. The words "the" and "said" are interchangeable in claims drafting. ("Said" is old-fashioned legalese for the most part, while "the" is an attempt to make language more accessible to non-lawyers.)

For Educational Purposes



The Patent Cooperation Treaty (PCT) is a multilateral treaty that became effective in 1978. The PCT is administered by the International Bureau of the World Intellectual Property Organization (WIPO) whose headquarters are in Geneva, Switzerland. The member countries of the PCT are called PCT Contracting States. As of August 1, 2006, there were 133 PCT Contracting States.

The PCT enables a patent applicant to file one "international" patent application to seek protection in any or all of the PCT Contracting States. The "international" patent application has the effect of filing a regular "national" patent application in each designated state" and it is important to understand that WIPO does not issue a "PCT patent" or "international patent" that provides protection in all the Contracting States.

Patents are granted or rejected by each PCT Contracting State or regional office individually under their respective patent laws. Thus, an applicant must still prosecute a patent application in each country or regional office in which he seeks protection and pay the national or regional fees.

The main advantage of filing a PCT application is the additional time gained before having to prosecute applications in other countries after the initial filing. Without the PCT the applicant generally has 12 months to file patent applications in other Paris Convention countries after filing the initial application. In contrast, by using the PCT the applicant has at least 30 months (and more in many countries) from the date of initial filing to begin prosecuting his application in other countries – effectively gaining 18 months. This delay provides time to obtain knowledge as to the patentability and commercial prospects of an invention. It also postpones the major costs of internationalizing a patent application such as paying national/regional fees, translating the patent application and paying fees to local patent agents in the various countries.

For Educational Purpose

Many patent offices require claims to recite at least two elements. A patent claim without many limitations can be impossibly broad. One can readily see the necessity for this rule by comparing the following two claims:

Example 1. A computer, comprising:  
a processor.

Example 2. A computer, comprising:  
a processor;  
a memory; and  
a bus configured to transmit data between the memory and the processor.

The claim from the first example above does not tell the reader much about a computer other than that it is something containing a processor. Of course, the specification will define a processor for us and we can also assume that processors exist in the prior art. Thus, the applicant appears to be claiming anything that contains a processor especially if the preamble is not considered to be limiting. Such a claim is impossibly broad – it reads on a box in which a processor is shipped since we don't know anything more about computers other than that they are structures that contain processors. The second claim provides a lot more structure and definition for computers.

For Educational Purpose

A Report on

World Intellectual Property Day

Theme:

Women and IP: Accelerating innovation and creativity

26- 04 - 2023

Organised by EDC,IIC-CBIT



Entrepreneur"rising"ideas



**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075. Telangana

Poster:

**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of Education (IET-534))

**MoES INNOVATION CELL**  
GOVERNMENT OF INDIA

**THE CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)**  
Kalyani Nagar, Goudpur, Hyderabad - 500082, www.cbait.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION

# WORLD INTELLECTUAL PROPERTY DAY

April, 26<sup>th</sup> 2023, 11:00 am.  
N-Block Seminar Hall

- Address by Principal CBIT (A).
- Presentation on IPR Filed, Published and Granted for CBIT. Patents and copyrights file by Women Inventors and other inventors. (by Advisor, I&I), CBIT (A).
- Lecture on "Accelerating innovation and creativity, Innovation & IPR-innovating for Better future" by Senior Patent Attorney, Mr. Tapan Brahma.

  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Kalyanandipet, Hyderabad-500 075. Telangana



# Circular



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**

Autonomous Institute, Hyderabad  
Approved by AICTE, Government of India  
Recognized by UGC, Government of India  
Affiliated to JNTU, Hyderabad  
NBA Accredited  
ISO 9001:2015 Certified

Committed to  
RESEARCH  
INNOVATION AND  
EXCELLENCE

**44**  
YEARS

No.CBIT/062/Admn./2023

Dt.25.04.2023

## CIRCULAR

Sub: Celebration of World Intellectual Property Day on 26<sup>th</sup> April, 2023  
Theme: Women and IP: Accelerating innovation and creativity

World Intellectual Property Day is celebrated on 26<sup>th</sup> April 2023 to raise awareness about Intellectual Properties and how Patents, Copyright, Trademark etc., are protected. This year, the theme of World Intellectual Property is "Women and IP: Accelerating Innovation and Creativity". The motive behind this day is to make people aware of intellectual property and how to protect them. World Intellectual Property Day is an opportunity for young people to find out how IP rights can support their goals, help transform their ideas into reality and how to create IPRs.

CBIT's Institute Innovation Cell and EDC Cell will be arranging the IP sessions on Patent, Design, trademarks, copyright, geographical indications, trade secrets etc., which will help the students and faculty to understand about the role that intellectual property (IP) rights play in encouraging innovation and creativity. The following programs will be arranged off line in the N-Block Seminar Hall.

- 1) Address by the Principal, CBIT
- 2) Presentation on IPR Filed, Published and Granted for CBIT. Patents and copyrights filed by Women Inventors. (by the Advisor-I&I, CBIT)
- 3) Lecture on "Accelerating innovation and creativity & Innovation and IPR-innovating for Better future" by Senior Patent Attorney, Mr.Tapan Brahma, (the speaker will join on line)

As per the guidelines of Ministry of Education Innovation Cell for the CBIT's IIC is organising the session in order to motivate the faculty and students to file more IPRs. For any further information in this regard, contact Dr. Vanita Guda, Asst. Prof., Dept. of CSE, Mobile : 9381281477, and Ms. V. Sandhya Reddy, Asst. Prof., Dept. of Mech. Engg., Mobile: 9701540189.

All the interested Faculty and Students are advised to attend the program from 11:00 AM to 12:30 PM tomorrow without detrimental to class work. Students who can't be accommodated in the Seminar Hall, can join online for the session. Link for joining the Session : <https://cbithyd.webex.com/j.php?MTID=ma60b67f8a5ae56f52ffa5e391da75ce>

PRINCIPAL

To  
All the Advisors, Directors, Associate & Joint Directors, Heads of the Departments / Sections, CoE, Librarian, Head-HR, Asst. PD and PRO, for information and advised to arrange for circulation among all the Faculty and Students under their control.

*Ravi*  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Dipet, Hyderabad-500 075, Telangana

## Brief profile of Speaker:

Mr Tapan Brahma

Experience

Founder, Director, ExiLyze Intellectual Services Private Limited

Senior Manager, Legal Advantage LLC

Assistant Manager, SciTech Patent Art

A seasoned, versatile, and passionate professional specializing in Intellectual property research, drafting, Filing, analytics, and litigation support with over 18 years of in-depth experience in all things IPR.

I bring a successful track record of specialist analytical skills gained through 5000+ IP/Business related projects. I am proficient in Intellectual property matters and have worked with attorneys and innovators across the globe, and am adept to identify evolving technologies and effectively connect the dots.

An Indian Patent Agent, I have Master's degrees in Chemistry and Polymer Technology and a diploma in patent law. My extreme familiarity with all current intellectual property trends and knowledge management market is a definite asset. Additionally, I'm known to continuously improve performance standards, while ensuring client objectives are met.

## Scope:

1. To promote awareness about patents, copyrights, trademarks, and design
2. To identify the criteria for a product/process to be patentable
3. Role of intellectual property rights to stimulate innovation and creativity.
4. To help younger generation to focus on shifting to a more suitable future by identifying the role of IP



**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Srianya Bharathi Institute of Technology (A)  
Madhapet, Hyderabad-500 075. Telangana

## Learning Outcome of the session:

1. Identify and distinguish different forms of IP
2. Identify and assess criteria to be met for a particular IP
3. Statutory laws available to protect IP
4. The role of IP in the development of a country

**Number of Students Participated:199**

**Number of Faculties Participated: 09**

**Photographs of the session:**



**Fig: Participants during the session**



**Fig: Inaugural of the session**



**Fig: Participants during the session**



**Fig: Principal address during the session**

*R. S. R.*

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Anya Bhanarathi Institute of Technology (A)  
Kot, Hyderabad-500 075, Telangana





CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)  
Gandipet, Hyderabad- 500 075

World Intellectual Property Day- 2023

Theme – Women and IP: Accelerating innovation and creativity  
Organised by Entrepreneurship Development Cell, IIC -CBIT

26-04-2023

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Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Gandipet, Hyderabad-500 075, Telangana





**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Ministry of Education Initiatives)



**MeE's  
INNOVATION CELL**  
(GOVERNMENT OF INDIA)



**CHAITANYA BHARATHI  
INSTITUTE OF TECHNOLOGY (A)**  
Madhapur, Hyderabad, Telangana 50075, www.cbait.ac.in

COMMITTED TO  
RESEARCH,  
INNOVATION AND  
EDUCATION

**44**  
years

**World IP Day Celebration 26-4-23**

Sl No	Name	Roll No/Staff No	Signature
1	Tanish G	160120733056	<i>Tanish G</i>
2	Ch. Gokul	160120733021	<i>Ch. Gokul</i>
2	V. Harshith	160120733054	<i>Harshith</i>
4	M.G. Shabaz	160120733050	<i>M.G. Shabaz</i>
5	K. Saketh	160120733049	<i>Saketh</i>
6	Amreen	160120733027	<i>Amreen</i>
7	Abdul Khadeer	160120733051	<i>Khadeer</i>
8	Vikram	160120733059	<i>Vikram</i>
9	Mayank	160120733301	<i>Mayank</i>
10	Vishnu R	160120733060	<i>Vishnu</i>
11	Chetan P	160120733027	<i>Chetan</i>
12	Rishik	160120733084	<i>Rishik</i>
13	Sanihita	160120748010	<i>Sanihita</i>
14	Snigdha	160120748015	<i>Snigdha</i>
15	Chetan	160120748026	<i>Chetan</i>
16	Adarsh P	160120733021	<i>Adarsh</i>
17	Adarsh A	160120733022	<i>Adarsh</i>
18	Aman	160120733023	<i>Aman</i>
19	Dhamesh	160120733028	<i>Dhamesh</i>
20	Philip	160120733036	<i>Philip</i>
21	G.G.G. Murari	160120733045	<i>Murari</i>
22	Vinay	160120733181	<i>Vinay</i>
23	Satwik	160120733049	<i>Satwik</i>
24	Snigdha	16012073305	<i>Snigdha</i>
25			

*Ramp*

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
Chaitanya Bharathi Institute of Technology (A)  
Madhapur, Hyderabad-500 075, Telangana





**Title of the Session: Idea Presentation In Life Science/ Innovation trends in Life Science**

**Judges Profile:** Mrs. Annie Vijaya, CEO- ACIC-CBIT and HOD Chemical Engineering.

**Date & Time:** 01-02-2023 & 11:10 am.

**Scope:**

- This is an event which brings the participants an opportunity to showcase their innovative ideas related to the specified domains for business, start-up or innovation.
- The themes under this event are sustainable development, any theme related to chemical engineering, Biotechnology and allied areas.
- Theme based interdisciplinary ideas regarding sustainable development are being invited for students and innovators irrespective of branch.
- This event is organized in collaboration with ACIC-CBIT to encourage and support good ideas. Ms.Satwika is the event coordinator and Ms.Mounisha, Ms.Nissy are the event organizers.

**Learning Outcome of the session:**

- Students understand the need and apply knowledge of Biotechnology to solve problems in the areas of Medicine, Agriculture, Fermentation technology, Food processing and Environment, and develop entrepreneurial ideas.
- Ability to present their project work through written, oral, and visual presentations.
- Exhibit an ability to work independently and collaboratively.

Number of Students Participated: 42

Number of Faculties Participated: 05

Poster:

The poster features a header with logos for MHRD's Innovation Cell (Government of India), Institution's Innovation Council (Ministry of Education Initiative), and Chaitanya Bharathi Institute of Technology (A). The Chaitanya Bharathi logo includes the text 'Kakapet(Vilaga), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in' and 'COMMITTED TO RESEARCH, INNOVATION AND EDUCATION' with a '44 years' anniversary graphic. Accreditation logos for AICTE, NBA, AACSB, and NIRF are also present. The main title is 'Idea Presentation In Life Science/ Innovation trends in Life Science'. Below it, the text reads 'Judges & Hod Chemical Engineering' and 'Mrs. Annie Vijaya, CEO- ACIC-CBIT.' A lightbulb icon with a brain inside is on the left. A blue box at the bottom right contains the date and time: 'Wednesday, 01 Feb 2023, @ 11:10 am – 01:10 pm.'

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) Kakapet(Vilaga), Gandipet, Hyderabad, Telangana-500075. www.cbti.ac.in

COMMITTED TO RESEARCH, INNOVATION AND EDUCATION 44 years

**Idea Presentation In Life Science/ Innovation trends in Life Science**

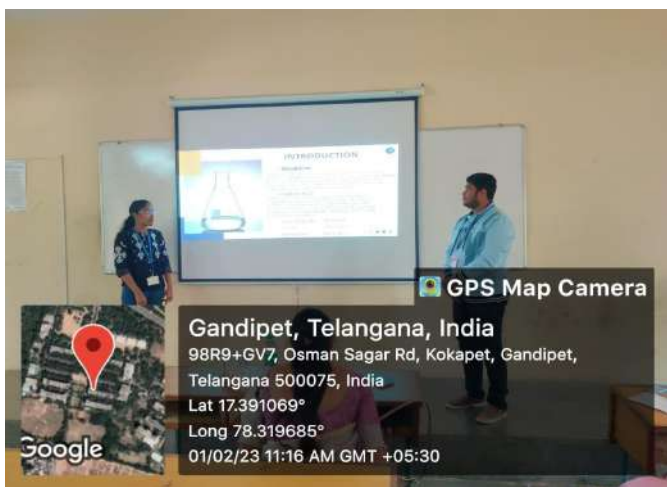
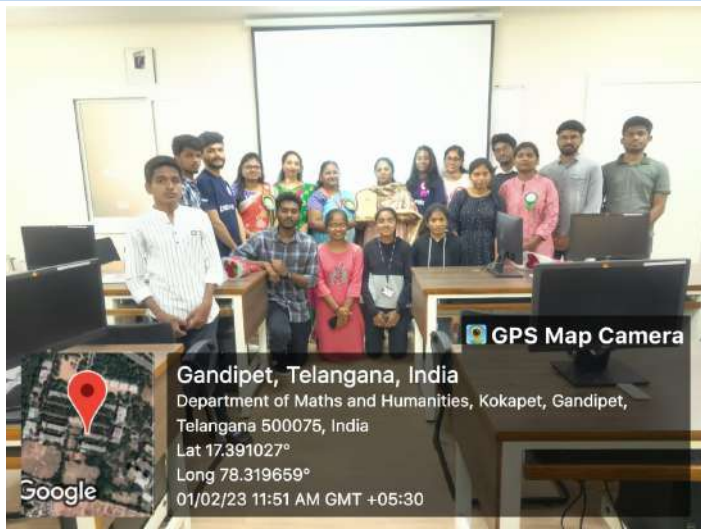
**Judges & Hod Chemical Engineering**

**Mrs. Annie Vijaya, CEO- ACIC-CBIT.**

Wednesday, 01 Feb 2023, @ 11:10 am – 01:10 pm.



Photographs of the session:



## IIC Session report on “on IIC & Yukti Innovations”

**Date:** 15<sup>th</sup> October 2022

**Time:** 10:15 AM to 11:15 AM

**Topic:** on IIC & Yukti Innovations

**Speakers:** Dr G Vanitha, Mrs M Sangeetha, Assistant Professor, CBIT-SMS

No. of Participants: 35

Expenditure amounting to: Nil

Mode of Session: Offline, CBIT

**Objective:** To make participants aware of innovation and Yukti Innovations

### **Benefits in terms of learning/skill/knowledge obtained:**

The following points were discussed with the participants.

Introduction about Institute Innovation Cell.

Discussed about Entrepreneurship and types of entrepreneurship.

The speaker has motivated the students to come up with innovative ideas, prototypes which will be served in attaining sustainable goals.

Real time examples of Product Innovations and different forms of Product Innovations was discussed.

Students were incentivized to endeavor innovation in products, thereby engendering a value addition to the society and the Nation.

It was additionally stressed that innovation can be utilizable for them to build their dream of becoming an entrepreneur & preparing them for their future life.

The program benefited the students i.e They were able to understand the meaning of innovation and disruption.

Examples of disruptive innovation were discussed like AI, block chain, IoT, Cloud computing etc.

About YUKTI – National Innovation Repository (NIR) is an initiative of the Ministry of Education (MoE) Government of India and it is implemented by MoE's Innovation Cell and AICTE to build a system of repository of ideas, innovations and startups developed in academic institutions.

Enabling institutions to systematically foster the I&E culture by managing and nurturing these innovations by offering continuous support in terms of one-to-one mentorship, grant assistance, referral and linkage with incubation units, connecting with Angel/Venture Capital (VC) investors network, knowledge agencies, etc

Explained About the uploading ideas in Yukthi

Steps :

1. <https://yukti.mic.gov.in/>

2. As a team lead register with college info mail id (while registering id card pic, roll number )

3. After registration username password you will get to your mail id from YUKTI

4. login with those details in YUKTI-National Innovation Repository(NIR) (mic.gov.in)

5. After login click on SUBMIT AN IDEA / INNOVATION / STARTUP -à add innovation --àselect idea r proof (if project is done select innovation /Prototype )

6. submit project details( any image /paper related to the work upload as Image )





**Awareness sessions About IIC**  
**IPRS, PATENTS & INNOVATIONS**

**Date:** 14<sup>th</sup> October 2022

**Time:** 03:00 PM to 4:00 PM

**Topic:** on IIC & Yukti Innovations

**Speakers:** Dr G Vanitha, Assistant Professor, CBIT(A)

No. of Participants: 150

Expenditure amounting to: Nil

Mode of Session: Offline, CBIT

**Objective:** To make participants aware of IIC and innovations IPRS and Yukti Innovations

**Benefits in terms of learning/skill/knowledge obtained:**

The following points were discussed with the participants.

Introduction about Institute Innovation Cell.

Discussed about Entrepreneurship and types of entrepreneurship.

The speaker has motivated the students to come up with innovative ideas, prototypes which will be served in attaining sustainable goals.

Real time examples of Product Innovations and different forms of Product Innovations was discussed.

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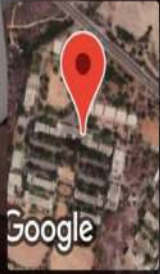
5. After login click on SUBMIT AN IDEA / INNOVATION / STARTUP -à add innovation --àselect idea r proof (if project is done select inovation /Prototype )

6. submit project details( any image /paper related to the work upload as Image )





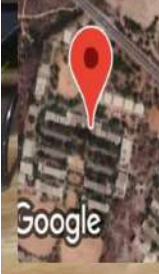
GPS Map Camera



**Gandipet, Telangana, India**  
98R9+RRJ, Kokapet, Gandipet, Telangana 500075, India  
Lat 17.392042°  
Long 78.31974°  
14/10/22 03:05 PM GMT +05:30



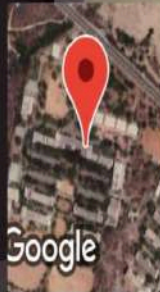
GPS Map Camera



**Gandipet, Telangana, India**  
98R9+RRJ, Kokapet, Gandipet, Telangana 500075, India  
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Long 78.319704°  
14/10/22 03:02 PM GMT +05:30



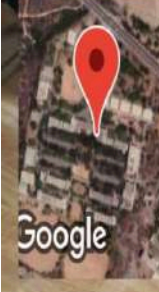
GPS Map Camera



**Gandipet, Telangana, India**  
98R9+RRJ, Kokapet, Gandipet, Telangana 500075, India  
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Long 78.319826°  
14/10/22 02:53 PM GMT +05:30



GPS Map Camera



**Gandipet, Telangana, India**  
98R9+RRJ, Kokapet, Gandipet, Telangana 500075, India  
Lat 17.391957°  
Long 78.319712°  
14/10/22 03:02 PM GMT +05:30

**Title of the Session: INNOVATION TECHNOLOGIES IN BUILDING CONSTRUCTION & SELF-SUSTAINABLE ENERGY BUILDING.**

**Speaker Profile:** Dr. Bishwajeet Choubey, Chief Construction Engineer, DRDO Hyderabad.

**Date & Time:** 31-01-2023 & 10:30 am.

**Scope:**

- Dr. Bishwajeet Choubey enlightened the students of Civil Engineering on Design for Manufacturing and Assembly (DFMA)
- which is an engineering methodology that focuses on reducing time-to-market and total production costs by prioritizing both the ease of manufacture.
- For the product's parts and the simplified assembly of those parts into the final product.
- Also Dr. Choubey emphasised on the different components for a building construction like composite or steel framed structure, PPVC, 3D printing, BIM and COBie-BLDG INFO MODELING and CONSTRUCTION OF BLDG INFO EXCHANGE, SSEB (self-sustainable energy building) and UFAD, Hybrid construction.

**Learning Outcome of the session:**

Building construction and self-sustainable energy buildings require careful consideration of a range of factors, including building design, insulation, energy-efficient appliances and lighting, renewable energy sources, and water conservation. By implementing these measures, it is possible to design and build buildings that are not only functional and safe, but also environmentally friendly and sustainable.



Number of Students Participated: 74

Number of Faculties Participated: 07

Poster:

MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)  
Kokapet(Village), Gandipet, Hyderabad, Telangana-509075. www.cbti.ac.in

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44 years

# INNOVATION TECHNOLOGIES IN BUILDING CONSTRUCTION & SELF-SUSTAINABLE ENERGY BUILDING.

**Speaker**  
**Dr. Bishwajeet Choubey, Chief Construction Engineer, DRDO Hyderabad.**

Tuesday, 31 Jan 2023,  
@10:30 am – 01:30 pm.



Photographs of the session:



**Title of the Session:** INNOVATIVE IDEA MANAGEMENT & TECHNOLOGY REEDINESS LEVEL ACHIEVEMENT

**SpeakerProfile:** Dr. U.K. Choudhury, Prof. & Advisor (Incubation & Innovation), CBIT EX. Executive Director, R&D & Corporate Technology Management , BHEL.

**Date & Time:** 31st May, 2023 & 2:00 pm to 4:30 pm.

**Scope:**

The scope of this project is to develop and implement an innovative idea management system that promotes the identification, evaluation, and implementation of novel ideas within an organization. Additionally, the project aims to assess and enhance the technology readiness level (TRL) of these ideas to ensure successful implementation and adoption.

**Learning Outcome of the session:**

The outcomes for students in the context of innovative idea management and technology readiness level achievement include the development of critical thinking, collaboration, communication, and entrepreneurial skills, as well as exposure to emerging technologies, practical implementation experience, networking opportunities, and recognition for their contributions. These outcomes prepare students for the dynamic and innovative workplaces of the future.

**Number of Students Participated: 82**

**Number of Faculties Participated: 05**

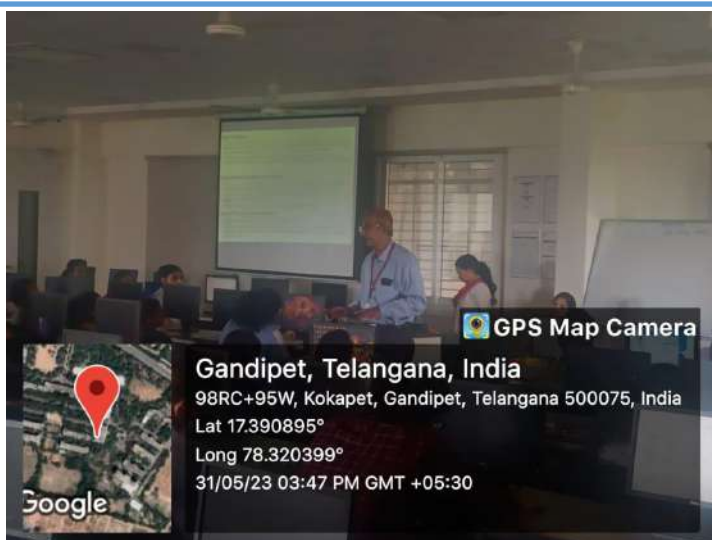
**Poster:**



The poster features a header with logos for MHRD's Innovation Cell, Institution's Innovation Council, and Chaitanya Bharathi Institute of Technology (A). The main title is "INNOVATIVE IDEA MANAGEMENT & TECHNOLOGY REEDINESS LEVEL ACHIEVEMENT" in large red letters. Below the title, it lists the speaker: Dr. U.K. Choudhury, Prof. & Advisor (Incubation & Innovation), CBIT EX. Executive Director, R&D & Corporate Technology Management, BHEL. The venue is specified as CDC TPO Hall no: 3, CBIT(A) on 31st May, 2023, from 2:00 PM to 4:30 PM. The co-ordinator is Dr. Madhulika Das, Asst. prof, EEE-Dept., with contact details: +91 7980200299 and madhulikadas\_eee@cbit.ac.in.



Photographs of the session:



**INNOVATIVE IDEA MANAGEMENT & TECHNOLOGY REEDINESS LEVEL ACHIEVEMENT**

**SPEAKER**  
**Dr. U.K. Choudhury,**  
 Prof. & Advisor (Incubation & Innovation),  
 CBIT EX. Executive Director,  
 R&D & Corporate Technology Management, BHEL.

**Venue:**  
 Offline/Hybrid-mode at CDC TPO Hall no: 3, CBIT(A)  
 31<sup>st</sup> May, 2023. ☉ 2:00 PM to 4:30 PM.

**Co-ordinator**  
 Dr. Madhulika Das, Asst. prof, EEE-Dept.  
 +91 7980200299 | madhulikadas\_eee@cbit.ac.in



**Title:** Importance of Intellectual Property and workshop on IPR and IP Management for the Entrepreneur and Start-up

**Speaker Profile:** Dr. U.K. Choudhury, Prof. & Advisor(I&I), CBIT (A)

**Date:** 30/08/2023

**Number of Students Participated:** 59

**Number of Faculties Participated:** 02

**Poster:**

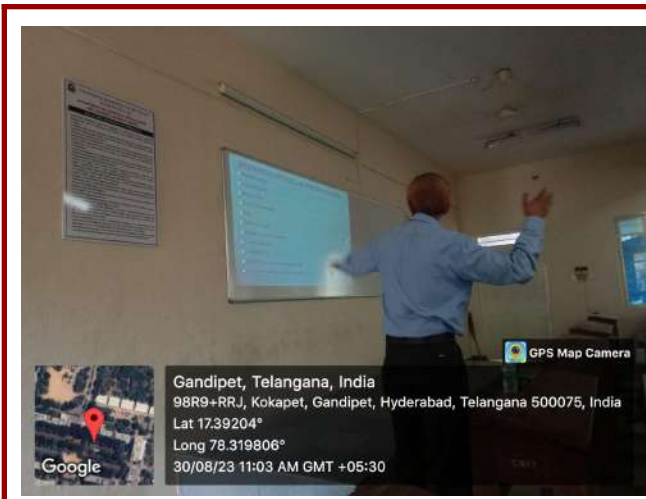


The poster features logos for MoE's Innovation Cell, Institution's Innovation Council, and Chaitanya Bharathi Institute of Technology at the top. The main text reads: **WORLD ENTREPRENEUR'S DAY**, 21st - 31st Aug, 2023. The event title is **IMPORTANCE OF INTELLECTUAL PROPERTY AND WORKSHOP ON IPR AND IP MANAGEMENT FOR THE ENTREPRENEUR AND START-UP**. The speaker is **Dr. U.K. Choudhury**, Prof. & Advisor(I&I), CBIT (A), Former Executive Director Corporate R&D and Corporate Technology, Mangement, BHEL (38 years of Industrial R&D Experience, 30 IPRs to his credit). The venue is **C204, CSE MEETING HALL C-BLOCK**, the date is **30TH AUG 2023**, and the time is **10:00 AM**. The poster is decorated with colorful, glowing ring graphics.

**Photographs of the Session:**







**Presentation of the Topic:**

MoE's  
**INNOVATION CELL**  
(GOVERNMENT OF INDIA)

INSTITUTION'S  
**INNOVATION COUNCIL**  
(Ministry of Education Initiative)

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years

## WORLD ENTREPRENEUR'S DAY

21st - 31st Aug, 2023

### IMPORTANCE OF INTELLECTUAL PROPERTY AND WORKSHOP ON IPR AND IP MANAGEMENT FOR THE ENTREPRENEUR AND START-UP

**Speaker**

**Dr. U.K. Choudhury**  
Prof. & Advisor(I&I), CBIT (A)

Former Executive Director Corporate R&D and Corporate Technology, Mangement, BHEL  
(38 years of Industrial R&D Experience, 30 IPRs to his credit)

**VENUE: C204, CSE MEETING HALL C-BLOCK**  
**DATE: 30TH AUG 2023**  
**TIME: 10:00 AM**



## **“Creative India; Innovative India: रचनात्मक भारत; अभिनव भारत”**

- The Union Cabinet has approved the National Intellectual Property Rights (IPR) Policy on 12<sup>th</sup> May, 2016 that shall lay the future roadmap for IPRs in India.
- The Policy recognises the abundance of creative and innovative energies that flow in India, and the need to tap into and channelize these energies towards a better and brighter future for all.
- The National IPR Policy is a vision document that encompasses and brings to a single platform all IPRs.
- It views IPRs holistically, taking into account all inter-linkages and thus aims to create and exploit synergies between all forms of intellectual property (IP), concerned statutes and agencies.
- It sets in place an institutional mechanism for implementation, monitoring and review. It aims to incorporate and adapt global best practices to the Indian scenario.

For Educational Purpose

Ref: National IPR Policy

## **Kalam Program for IP Literacy and Awareness(KAPILA)**

- To overcome the current limitations in our innovation ecosystem especially in our HEIs, a systematic holistic effort 'KAPILA: Kalam Program for IP Literacy and Awareness' is proposed.
- KAPILA scheme will create appropriate awareness regarding the need of IP filing, mechanism and methodology involved in filing IP in India and globally, especially amongst students and faculty of higher education institutions.
- KAPILA will help in establishing the much required IP filing ecosystem in large number of education institutions and thus create a culture of systematically protecting new ideas, research and innovation having national and global relevance.
- The objective of KAPILA is to recognise, facilitate and felicitate the Intellectual Property, innovations and best practices in HEIs.

For Educational Purpose

Intellectual Property (IP) is the name given to patents, trademarks, copyrights, industrial designs and other types of intangible property that arise from creations of the mind and in their broadest sense have no physical form.



Like all types of property, IP is owned and can generate income. For this reason IP is considered an asset. It is often the result of investment and should generate a return of one sort or another. IP differs from other types of property because it has no physical form and comes into being because of human intelligence, creativity and imagination.

There are different types of IP each with its own unique laws. IP is sometimes divided into two general categories, "industrial property" and "copyright." Industrial property refers to assets created primarily for the advancement of technology, industry and trade such as patents (inventions), industrial designs, trademarks, service marks, trade secrets and geographic indications of origin.<sup>1</sup> The most common forms of IP are:

## IPR Initiative and its Importance

- IPR have gained special importance for the Industries, Researchers, Academicians, Artists and in all sectors.
- IPR protection plays a key role in gaining competitive advantage in terms of technological gains for achieving higher economic growth.
- IPR requires greater understanding and attention .
- More information, orientation and facilities for protecting their intellectual powers are to be provided.
- Majority of the countries have adopted strategies for implementing strong IPR protection for strengthening their industries and trades.
- Indian industries have also recognized its importance and adopting IPR as a business strategy for enhancing competitiveness.

For Educational Purpose

# WHAT IS INTELLECTUAL PROPERTY

- ▶ **Intellectual property refers to creations of the mind:**
    - ▶ inventions;
    - ▶ literary and artistic works; and
    - ▶ symbols, names and images used in commerce.
  - ▶ **Intellectual property is divided into two categories:**
    - 1) **Industrial Property includes**
      - ▶ patents for inventions,
      - ▶ trademarks, industrial designs
      - ▶ and geographical indications.
    - 2) **Copyright covers**
      - ▶ literary works (such as novels, poems and plays), films, music,
      - ▶ artistic works (e.g., drawings, paintings, photographs and sculptures)
      - ▶ and architectural design.
- For Educational Purpose
- ▶ **Computer Program, formats**

## WHAT IS A PATENT?

A patent is an exclusive right granted for an invention –

- ▶ a product or process that provides a new way of doing something,
- ▶ or that offers a new technical solution to a problem.

Example:

- ▶ literary, artistic and scientific works;
- ▶ performances of performing artists, phonograms and broadcasts;
- ▶ inventions in all fields of human endeavor;
- ▶ scientific discoveries;
- ▶ industrial designs;
- ▶ trademarks, service marks, and commercial names and designations;

For Educational Purpose



## What kind of protection do patents offer?

- Protection against unfair competition; and
- “all other rights resulting from intellectual activity in the industrial, scientific, literary or artistic fields”.
- Patent protection means an invention cannot be commercially made, used, distributed or sold without the patent owner's consent.
- Patent rights are usually enforced in courts that, in most systems, hold the authority to stop patent infringement.
- Conversely, a court can also declare a patent invalid upon a successful challenge by a third party.

For Educational Purpose

## WHAT RIGHTS DO PATENT OWNERS HAVE?

- ▶ A patent owner has the right to decide who may – or may not – use the patented invention for the period during which it is protected.
- ▶ Patent owners may give permission to, or license, other parties to use their inventions on mutually agreed terms.
- ▶ Owners may also sell their invention rights to someone else, who then becomes the new owner of the patent.
- ▶ Once a patent expires, protection ends and the invention enters the public domain.
- ▶ the owner no longer holds exclusive rights to the invention, and it becomes available for commercial exploitation by others.

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1. In return for patent protection, all patent owners are obliged to publicly disclose information on their inventions in order:
  - to enrich the total body of technical knowledge in the world.
  - This ever increasing body of public knowledge promotes further creativity and innovation.
2. Patents therefore provide not only protection for their owners but also valuable information and inspiration for future generations of researchers and inventors.

## WHAT KINDS OF INVENTIONS CAN BE PROTECTED?

- ▶ It must be of practical use;
- ▶ it must show an element of "novelty", meaning some new characteristic that is not part of the body of existing knowledge i.e "prior art".
- ▶ The invention must show an "inventive step" that could not be deduced by a person with average knowledge of the technical field.
- ▶ In many countries, scientific theories, mathematical methods, plant or animal varieties, discoveries of natural substances, methods of medical treatment (as opposed to medical products) are not generally patentable.

For Educational Purpose

## WHAT IS A TRADEMARK?

- ▶ A trademark is a distinctive sign that identifies certain goods or services produced or provided by an individual or a company.
- ▶ Its origin dates back to ancient times when craftsmen reproduced their signatures, or "marks", on their artistic works or products.
- ▶ Over the years, these marks have evolved into today's system of trademark registration and
- ▶ protection. The system helps consumers to identify and purchase a product or service
- ▶ based on whether its specific characteristics and quality – as indicated by its unique trademark – meet their needs.
- ▶ Trademarks may be one or a combination of words, letters and numerals.
- ▶ They may consist of drawings, symbols or three dimensional signs,
- ▶ The effects of the registration are, however, limited to the country (or, in the case of regional registration, countries)

For Educational Purpose

## WHAT IS AN INDUSTRIAL DESIGN?

- ▶ An industrial design refers to the ornamental or aesthetic aspects of an article.
- ▶ A design may consist of three-dimensional features, such as the shape or surface of an article, or two-dimensional features, such as patterns, lines or color.
- ▶ Industrial designs are applied to a wide variety of industrial products and handicrafts:
  - ▶ from technical and medical instruments to watches, jewelry and other luxury items;
  - ▶ from house wares and electrical appliances to vehicles and architectural structures; from textile designs to leisure goods.
- ▶ industrial design is primarily of an aesthetic nature.

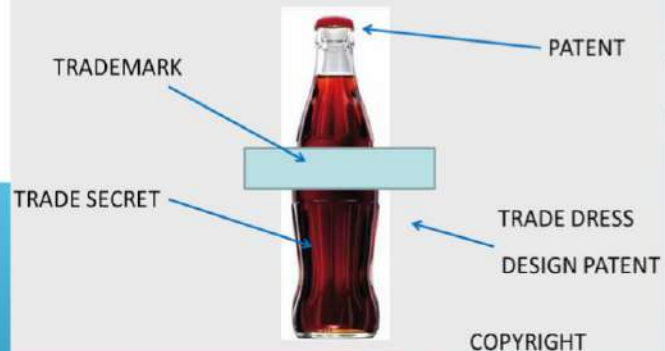
For Educational Purpose

### How many types of IP Are in a Coca-Cola Bottle?

- **Utility Patent** in "tamper resistant cap design"
- **Trademark** in logos on label
- **Copyright** in text on label
- **Trade Dress and Design Patent** covering bottle shape
- **Trade secret**: the formula



Ref: Internet Images



For Educational Purpose



# WHAT IS A GEOGRAPHICAL INDICATION?

- ▶ A geographical indication is a sign used on goods that have a specific geographical origin and possess qualities or a reputation due to that place of origin.
- ▶ The use of geographical indications is not limited to agricultural products.
- ▶ They may also highlight specific qualities of a product that are due to human factors found in the product's place of origin, such as specific manufacturing skills

For Educational Purpose

## GEOGRAPHICAL INDICATORS AND TRADITIONAL KNOWLEDGE

- ▶ Tirupati Laddu
- ▶ Darjeeling Tea
- ▶ Mysore Silk
- ▶ Kutchh Embrodery
- ▶ Feni
- ▶ Bikaneri Bhujia
- ▶ Nagpur Santra (Orange)
- ▶ Scotch Whisky
- ▶ Basmati Rice
- ▶ Neem as controlling Fungi in plants
- ▶ Haldi/Turmeric for healing wounds

For Educational Purpose

## TRADE SECRET

- ▶ The subject matter must be kept secret
- ▶ Capable of adding economic value
- ▶ Reasonable precautions and steps to be taken to keep it secret.
- ▶ The purpose is to ensure that no one claims protections for something which was flowing freely to competitors.

For Educational Purpose

### Famous Trade Secrets

Formula for Coca-Cola



The Big Mac Special Sauce



KFC Chicken Recipe



WD-40 Formula



For Educational Purpose

Ref: Internet Images

# COPYRIGHT LAWS

Copyright laws grant authors, artists and other creators protection:

- ▶ for their literary and artistic creations, generally referred to as "works".
- ▶ The beneficiaries are: performers (such as actors and musicians) in their performances; producers, Compact discs, DVDs in their sound recordings; and broadcasting organizations in their radio and television programs.
- ▶ Novels, poems, plays, reference works, newspapers, **advertisements, computer programs, software, databases**, films, musical compositions, choreography, paintings, drawings, photographs, sculpture, architecture, maps and **technical drawings**.

For Educational Purpose



Ref: Internet Images



Some of the Trademarks

For Educational Purpose




## HOW TO FILE PATENTS/COPYRIGHT, PATENT COOPERATION TREATY(PCT) AND INTERNATIONAL PATENT. (FOLLOWING DETAILS WILL BE COVERED IN PART-II OF THE TALK)

### Patent Specifications.

- ▶ Provisions Spec.
- ▶ Complete Spec.

Complete Specifications: Submission of Complete specification with following details are necessary to obtain a patent.

- ▶ Title of the Invention.
  - ▶ Field to which the invention belongs
  - ▶ Background of the invention
  - ▶ Complete Description of the invention
  - ▶ Drawings
  - ▶ Claims
- ▶ Patenting Process, Fees Payable, Formats and Some Examples of Patents.
- 

The parts of the patent application typically include the Background, Summary, Detailed Description and Drawings, Claims, and Abstract. The patent agent is unlikely to draft the patent application in this order and should ordinarily draft the claims first. This is because the claims are the heart of a patent. In reading a patent application:

- the Background section sets the stage for what is to come;
- the Summary section mirrors the claims;
- the Detailed Description and Drawings enable the claims by providing a sufficient technical disclosure of the invention;
- the Claims define the scope of exclusive protection, and
- the Abstract is primarily an aid for patent searchers and normally receives very little substantive review.

All these sections will be explained in more detail below.

Once a patent agent understands the invention he can begin preparing the patent application. The parts of the application are generally:

- claims
- detailed description (or specification)
- drawings
- background
- abstract
- summary

A patent agent will want to consider the patent application's title fairly early. This title should broadly describe the invention. However, titles are not generally examined. Occasionally a patent examiner will decide that a title is not descriptive of the invention. It is best to avoid being overly narrow in the invention's title, although the title should sufficiently indicate the subject matter of the invention.

For Educational Purpose

The elements in a patent claim must have the correct antecedent basis. This means that the first time an element is introduced, the indefinite article "a" or "an" should be used. Later when referring back to previously introduced elements, the definite article "the" or "said" should be used. Proper antecedent basis is not just a good idea; like gravity, it is the law. The following set of claims will help explain proper antecedent basis:

1. *A device, comprising:  
a pencil; and  
a light attached to the pencil.*
2. *The device recited in claim 1 wherein the light is detachably attached to the pencil.*
3. *The device recited in claim 2 wherein the pencil is red in color.*

Notice that in Claim 1, we introduced the "pencil" for the first time by referring to it as "a pencil." In the same claim, we also introduced the light for the first time as "a light." However, when we wanted to specify that the light was attached to the pencil, we referred to the pencil as "the pencil." The use of the word "the" signaled that the pencil was the one we had previously defined in the claim. Otherwise, there would be ambiguity as to whether it was the same pencil or another pencil. The words "the" and "said" are interchangeable in claims drafting. ("Said" is old-fashioned legalese for the most part, while "the" is an attempt to make language more accessible to non-lawyers.)

For Educational Purpose

The Patent Cooperation Treaty (PCT) is a multilateral treaty that became effective in 1978. The PCT is administered by the International Bureau of the World Intellectual Property Organization (WIPO) whose headquarters are in Geneva, Switzerland. The member countries of the PCT are called PCT Contracting States. As of August 1, 2006, there were 133 PCT Contracting States.

The PCT enables a patent applicant to file one "international" patent application to seek protection in any or all of the PCT Contracting States. The "international" patent application has the effect of filing a regular "national" patent application in each designated state<sup>16</sup> and it is important to understand that WIPO does not issue a "PCT patent" or "international patent" that provides protection in all the Contracting States.

Patents are granted or rejected by each PCT Contracting State or regional office individually under their respective patent laws. Thus, an applicant must still prosecute a patent application in each country or regional office in which he seeks protection and pay the national or regional fees.

The main advantage of filing a PCT application is the additional time gained before having to prosecute applications in other countries after the initial filing. Without the PCT the applicant generally has 12 months to file patent applications in other Paris Convention countries after filing the initial application. In contrast, by using the PCT the applicant has at least 30 months (and more in many countries) from the date of initial filing to begin prosecuting his application in other countries – effectively gaining 18 months. This delay provides time to obtain knowledge as to the patentability and commercial prospects of an invention. It also postpones the major costs of internationalizing a patent application such as paying national/regional fees, translating the patent application and paying fees to local patent agents in the various countries.

For Educational Purpose



Many patent offices require claims to recite at least two elements. A patent claim without many limitations can be impossibly broad. One can readily see the necessity for this rule by comparing the following two claims:

Example 1. A computer, comprising:  
a processor.

Example 2. A computer, comprising:  
a processor;  
a memory; and  
a bus configured to transmit data between the memory and the processor.

The claim from the first example above does not tell the reader much about a computer other than that it is something containing a processor. Of course, the specification will define a processor for us and we can also assume that processors exist in the prior art. Thus, the applicant appears to be claiming anything that contains a processor especially if the preamble is not considered to be limiting. Such a claim is impossibly broad – it reads on a box in which a processor is shipped since we don't know anything more about computers other than that they are structures that contain processors. The second claim provides a lot more structure and definition for computers.

For Educational Purpose

THANK YOU.

For Educational Purpose

Ref: WIPO Website

**Title of the Session: My Story - Motivational Session by Successful Entrepreneur**

**Speaker Profile:** Dr. N. V. SRINIVASULU (PROFESSOR), CBIT(A), HYDERABAD.

**Date & Time:** 21/02/2023 & 11:00 am to 01:00 pm.

**Scope:**

A need in the marketplace and works to fulfill it. The term, historically, has been applied to an individual who starts a business, seeing the ability to fulfill that identified need as an economic opportunity.

**SOURCES OF STARTUP IDEAS**

- EXHIBITIONS
- SEMINARS
- WORKSHOPS
- TRADE FAIRS
- NATIONAL AND INTERNATIONAL CONFERENCES
- PROBLEMS FACED BY SOCIETY
- PROBLEMS FACED BY YOU & YOUR SURROUNDING PEOPLE
- TO IMPROVE THE EXISTING TOOLS, MACHINES, MECHANISMS

**Learning Outcome of the session:**

Students understand and learn the Success of Entrepreneurs.

**Number of Students Participated: 107**

**Number of Faculties Participated: 08**

**Poster:**



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INSTITUTE OF TECHNOLOGY (A)  
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years

**My story- motivational session by  
successful entrepreneur/ start-up founder**

**Dr N V SRINIVASULU**  
**PROFESSOR**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CBIT, HYDERABAD-500075, TELANGANA**  
**MAIL: profsrinivascbti@gmail.com**

Photographs of the session:



## ***KINDS OF STARTUP IDEAS***

**Are centered around providing customers**

**Type A**

with an existing product not available in their market.

**Type B**

Involve new ideas, involve new technology.

**Type C**

improved product.



# IMPACT OF VAASTU

- Factors influencing
- Is it really affecting
- How to do survey
- which area to select for survey
- Questionnaire
- Case studies
- Anything related to this in ancient sciences- vedas , puranas etc.

***Started in 1989 and doing research till today***

- Collecting information of accidents, special issues from news papers
- From friends or relatives about incidents like suicide, divorce, achievements.
- How about other occult sciences impact on us like astrology, numerology, stones, color of dresses etc.

## **Case studies**

- Suicidal death
- Accidental deaths
- Major operations like heart attacks, bypass surgery, stunts
- Gyneic problems
- Court litigations
- Financial issues
- Business losses
- IP cases
- Health issues
- Childless issues
- Issues in factories related to unions

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# NATIONAL SCIENCE DAY CELEBRATIONS

*IIC Calendar Activity*

**Venue: EEE Seminar Hall**      **Date: 28th Feb 2023**      **Time: 01:00 pm**

Address By  
**Prof. P. Ravinder Reddy**  
Principal, CBIT

Session Resource Person  
**Prof. G. Surender Reddy**  
(Chief Mentor & Director, Butterfly Edufields)

### **NATIONAL SCIENCE DAY 2023 THEME:**

The theme of National Science Day 2023 is 'Global Science for Global Wellbeing'.

### **WHO WAS CV RAMAN?**

Dr CV Raman was a renowned scientist who had a bachelor's and master's in Physics from the Presidency College in Madras. Besides working for the government, he competed in numerous science contests. Afterward, he received a scholarship from the Indian government.

### **WHAT IS RAMAN EFFECT?**

When molecules deflect light beams, the Raman Effect occurs, which causes a change in wavelength. When a beam of light traverses a dust-free, transparent sample of a chemical compound, a small fraction of the light emerges in directions other than that of the incident (incoming) beam. Most of this scattered light is of unchanged wavelength. There is, however, a small portion that has wavelengths different from those of the incident light; this is due to the Raman effect.

### **NATIONAL SCIENCE DAY CELEBRATION:**

In celebration of National Science Day, there are public speeches, science movies, science exhibitions, and events based on science themes and concepts.

As part of its celebration of the anniversary of the world's greatest discovery- the Raman effect- the government of India felicitates scientists who have made substantial contributions to science.

### **Celebration of National Science Day.**

The celebration started with Address by Principal, CBIT. He explained how science can be used for the communities, society for their well being and for Industries for making nation self-Reliant. External Resource person Prof. G Surender Reddy Explained about Ideation and development of new product. Physics Depot. Along with their staff and students also celebrated the National Science day.



CV Raman







Al  
Go

## **Title of the Session: Workshop on IPR Awareness, Patent & Copyright Procedure, Trade mark, Patent drafting, Patent Office Guidelines.**

**Speaker Profile:** Dr. U.K. Choudhury, Prof. & Director(I&I), CBIT(A).

Former Executive Director Corporate R&D and Corporate Technology ,angement, BHEL ( 38 years of Industrial R&D Experience , 3 years Collaboration and Joint Venture)

<https://www.linkedin.com/in/dr-umakanta-choudhury-94a89a131/Experience>

**Date & Time:** 21-02-2023 & 02:15 pm.

**Link:**<https://www.linkedin.com/in/dr-umakanta-choudhury-94a89a131/details/skills/?detailScreenTabIndex=0>

### **Scope:**

Which includes patents, copyrights, trademarks, and trade secrets. These rights allow the creators of intellectual property to protect their inventions, creative works, and branding.

- Patents protect inventions, which can be processes, machines, compositions of matter, or improvements thereof.
- Copyrights protect creative works, such as literary, musical, and artistic works.
- Trademarks protect branding, such as logos and slogans, that distinguish a company's products or services from those of its competitors.
- Patent drafting is the process of creating a patent application that describes the invention in detail and meets the requirements of the Patent Office.
- Patent Office guidelines are rules and procedures established by the Patent Office that govern the filing and examination of patent applications.

### **Learning Outcome of the session:**

In order to increase IPR awareness, workshops and training sessions can be held to educate inventors, creators, and business owners about the importance of protecting their intellectual property and the procedures involved in obtaining and enforcing IPR.

Number of Students Participated: 47

Number of Faculties Participated: 03

Poster:

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**Workshop on IPR Awareness, Patent & Copy right procedure, Trade mark, Patent drafting, Patent Office guidelines**

Venue: ECE, Room No 305  
Date: 21-2-23 & Time: 2:15 PM

**Following aspects will be covered.**

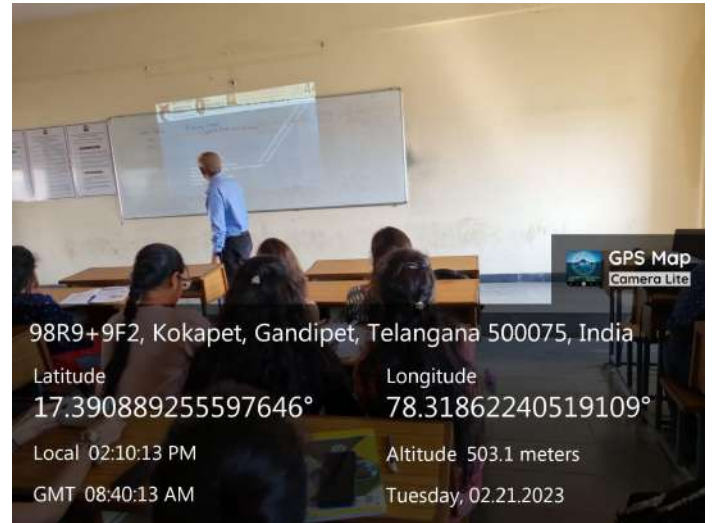
- Introduction and Why should we file IPRs
- Types of IPR (Patents, Copyright, Trademark, GI, Design Patent)
- Frequently asked Qns.
- Procedure and guidelines to file IPRs
- Examples

**Speaker**

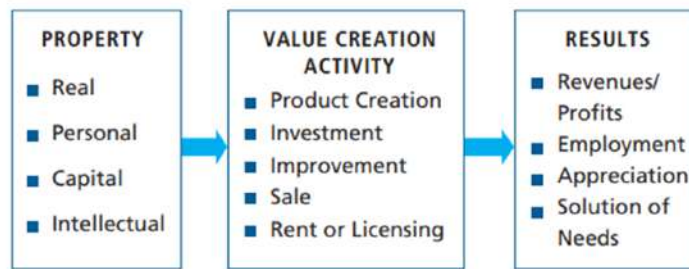
**Dr. U.K. Choudhury,**  
Prof. & Director, Incubation & Innovation , CBIT EX.  
Executive Director, R&D & Corporate Technology Management , BHEL.



**Photographs of the session:**



Intellectual Property (IP) is the name given to patents, trademarks, copyrights, industrial designs and other types of intangible property that arise from creations of the mind and in their broadest sense have no physical form.



Like all types of property, IP is owned and can generate income. For this reason IP is considered an asset. It is often the result of investment and should generate a return of one sort or another. IP differs from other types of property because it has no physical form and comes into being because of human intelligence, creativity and imagination.

There are different types of IP each with its own unique laws. IP is sometimes divided into two general categories, "industrial property" and "copyright." Industrial property refers to assets created primarily for the advancement of technology, industry and trade such as patents (inventions), industrial designs, trademarks, service marks, trade secrets and geographic indications of origin.<sup>1</sup> The most common forms of IP are:

The parts of the patent application typically include the Background, Summary, Detailed Description and Drawings, Claims, and Abstract. The patent agent is unlikely to draft the patent application in this order and should ordinarily draft the claims first. This is because the claims are the heart of a patent. In reading a patent application:

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For Educational Purposes

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For Educational Purpose

*Report on*

**A Three Day MATLAB Training Program**

**on**

**“Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxes”**

**3<sup>rd</sup> – 5<sup>th</sup> July, 2023**

A Three-Day MATLAB Training Program on "Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicle, Machine & Deep Learning Toolboxes" had been organized by the departments of ECE and EEE at Chaitanya Bharathi Institute of Technology, Hyderabad, from 3rd to 5th July 2023.

The event had been graced by esteemed dignitaries, including Prof. C. V. Narasimhulu, the Chief Patron. Prof. D. Krishna Reddy, the Head of the ECE Department, and Prof. M. Balasubba Reddy, the Head of the EEE Department, had also contributed to the program's success as the Chief Advisors.

The coordination of the training program had been effectively managed by Dr. T. Aravinda Babu, an Assistant Professor in the ECE Department, and Dr. P. Vijay Babu, an Assistant Professor in the EEE Department.

During the Three-Day MATLAB Training Program, participants had been immersed in various cutting-edge technologies, acquiring hands-on experience in Simulink for dynamic system modeling, HDL code generation, medical imaging, optimization techniques, electric vehicle modeling, and the application of machine & deep learning toolboxes. Upon the program's conclusion, participants had been equipped with invaluable skills and knowledge, empowering them to tackle real-world engineering challenges with confidence and innovation.

The success of the training program had been attributed to the combined efforts of the organizers and the active participation of the participants, creating an enriching environment for skill development and knowledge sharing.

Overall, the Three-Day MATLAB Training Program had been a resounding success, leaving a lasting impact on the attendees and furthering their understanding and proficiency in MATLAB applications across various domains.

**Preamble:**

We warmly welcome you to our comprehensive training program, which encompassed Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicles, and Machine & Deep Learning Toolboxes.

Throughout the program, participants gained hands-on experience and expertise in these cutting-edge technologies, enabling them to excel in diverse engineering applications. Our team of experienced instructors was dedicated to providing participants with the knowledge and skills needed to effectively tackle real-world challenges.

Whether attendees were seasoned professionals seeking to enhance their skillset or students eager to explore the exciting world of engineering, this program was thoughtfully designed to cater to their specific learning needs. They delved into the intricacies of Simulink



for modeling and simulation, mastered the art of HDL code generation for hardware implementations, explored the fascinating realm of Medical Imaging for healthcare advancements, harnessed the power of Optimization techniques for system enhancement, dived into the promising domain of Electric Vehicles, and discovered the potential of Machine & Deep Learning Toolboxes for developing intelligent systems.

Throughout the journey, participants had access to cutting-edge tools, resources, and a collaborative learning environment that fostered innovation and creativity. Our commitment was to equip them with the knowledge and expertise to stand out in today's fast-paced technological landscape.

We are delighted to witness the transformation of those who joined us in this program, as they are now equipped with the skills and knowledge to shape a better, more technologically advanced future. We express our sincere gratitude for your active participation in this exciting learning adventure!

In view of the above, we are pleased to announce that we have successfully conducted a training program on Simulink, HDL code generation, Medical Imaging, Optimization, Electric vehicles, and Machine & Deep Learning Toolboxes. The activities scheduled for the 3-day program are detailed below, and the timetable is enclosed at the end.

**Day 1: (03-07-2023)**

**Slot 1: 10:00 AM to 1:00 PM**

**Dynamic System Modeling with Simulink:**

- Dynamic System Modeling with Simulink
- Importance of Auto Solver
- Embedding MATLAB Function in to Simulink Model
- Running Simulink Model from MATLAB
- Accessing MATLAB Workspace by Simulink

**Slot 2: 02:00 AM to 04:30 PM**

**HDL Code Generation from MATLAB and Simulink:**

- Introduction to HDL Coder Toolbox
- HDL Code Generation from MATLAB
- Generate HDL Code from Simulink Model
- Create HDL-Compatible Simulink Model
- HDL Code Generation Workflow
- HDL Code Generation for Image Enhancement

**Day 2: (04-07-2023)**

**Slot 1: 10:00 AM to 1:00 PM**

**Medical Imaging with MATLAB:**

- Introduction to Medical Imaging
- Importing, pre-processing and analyzing Radiology and other Images



## Applications of Deep Learning

### Participant Strength

We are delighted to share that our Three-Day MATLAB Training Program successfully concluded with an impressive turnout of 35 participants from diverse departments, including EEE, ECE, BIO TECHNOLOGY, Mechanical, and Artificial Intelligence and Data Science, as well as Artificial Intelligence and Machine Learning (AI&ML).

Throughout the program, participants actively engaged in various hands-on sessions and interactive discussions, fostering a dynamic learning environment. Their enthusiasm and dedication resulted in exceptional outcomes, with each participant gaining valuable insights and practical skills in MATLAB and its applications.

We are proud of the accomplishments achieved during the training, which have equipped the participants with the tools to excel in their respective domains. The diverse backgrounds and expertise brought by the attendees further enriched the learning experience, creating a vibrant atmosphere for knowledge exchange and collaboration.

We extend our heartfelt gratitude to all the participants for their active participation and commitment to making this training program a resounding success. We are confident that the knowledge gained during these three days will prove invaluable in their academic and professional pursuits.

As we move forward, we look forward to organizing more such enriching programs and continuing to foster a spirit of exploration and innovation among our participants. Once again, thank you to everyone involved in making this training program a truly rewarding experience. Here's to a future filled with continued growth and success!

### Speaker Profile:

Mr. J. Prem Kumar is a highly skilled and accomplished Product Manager for MathWorks Products at Capricot Technologies Private Limited. With a wealth of expertise in various fields, he has made significant contributions in Dynamic System Modeling, Embedded Systems, Robotics, Image Processing, Speech Processing, Deep Learning, and Computer Vision.

Having served in Capricot Technologies for over a decade, Mr. Kumar brings a deep understanding of the industry and its evolving trends. Prior to joining Capricot Technologies, he garnered valuable experience in the Semiconductor Manufacturing Industry, further enriching his knowledge in the tech domain.

Mr. Kumar's educational background boasts a master's degree in VLSI System Design, showcasing his proficiency in this specialized area. His strong foundation is further reinforced by a bachelor's degree in Electronics & Communication Engineering.

Presently, as the Product Manager in the MathWorks Education Solutions division at Capricot Technologies Pvt. Ltd., Mr. Kumar continues to lead with exceptional expertise and dedication. His passion for teaching and sharing knowledge is evident through his 10+ years of experience as a MATLAB Trainer within the organization.

Mr. Kumar's impressive profile and vast experience make him an exceptional speaker, and his contributions to the field of technology and education have left a lasting impact on both the industry and his peers. His valuable insights and extensive knowledge are sure to enrich any event or training session he graces with his presence.

### **Summary of Outcomes:**

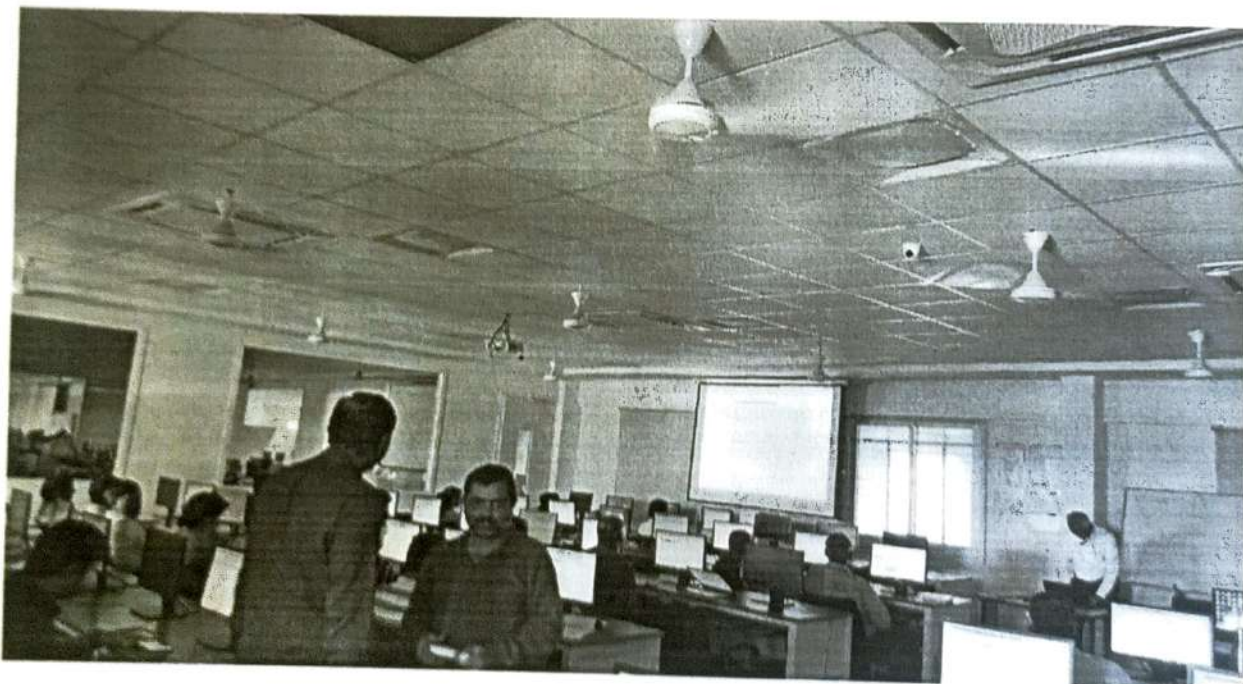
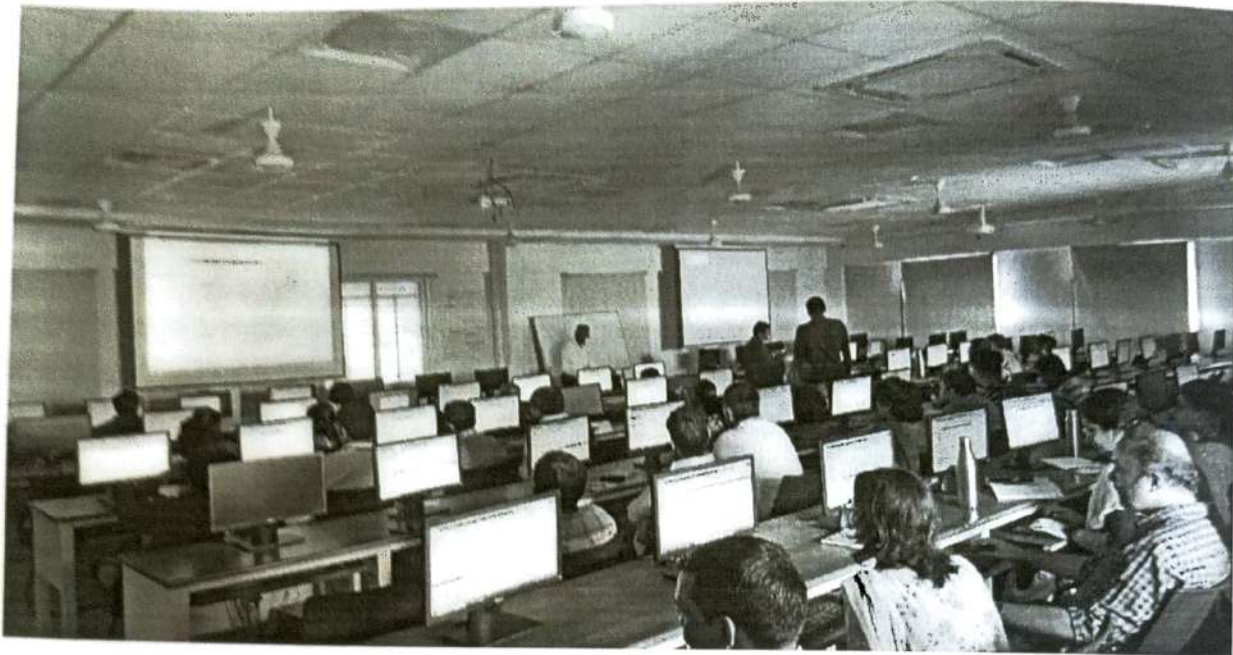
Participants in this comprehensive training program gained valuable knowledge and skills in various cutting-edge technologies. The program covered the following topics:

- **Dynamic System Modeling with Simulink:** Participants learned how to model dynamic systems using Simulink, the importance of auto solver, embedding MATLAB functions in Simulink models, running Simulink models from MATLAB, and accessing MATLAB workspace by Simulink.
- **HDL Code Generation from MATLAB and Simulink:** Participants were introduced to the HDL Coder Toolbox and learned to generate HDL code from MATLAB and Simulink models. They also created HDL-compatible Simulink models, explored the HDL code generation workflow, and applied HDL code generation for image enhancement.
- **Medical Imaging with MATLAB:** Participants gained insights into medical imaging, including importing, pre-processing, and analyzing radiology and other medical images. They learned to label 3-D medical images using the Medical Image Labeler and explored neural network concepts for medical imaging.
- **Optimization with MATLAB:** Participants were introduced to the Optimization Toolbox and learned about optimization theory. They also explored the Global Optimization Toolbox and compared its features with the standard Optimization Toolbox.
- **Electric Vehicles with MATLAB and Simulink:** Participants received an introduction to electric vehicles (EV) using MATLAB and Simulink. They learned to model a generic motor and a BLDC motor for EV applications. Additionally, they acquired skills in interfacing hardware with MATLAB Simulink and collecting sensor data for controlling electric vehicles.
- **Machine Learning and Deep Learning with MATLAB:** Participants delved into data collection and datasets used for machine learning. They learned about feature extraction in signals, supervised and unsupervised learning methods, and the application of machine learning in digital signals and images. The training covered challenges in feature extraction in machine learning, architecture of Convolutional Neural Networks (CNN), and designing and training CNNs using the Deep Network Designer App. Participants also explored the differences between machine learning and deep learning and discovered various applications of deep learning.

Overall, this training program empowered participants with a diverse skill set, enabling them to apply these technologies effectively in their respective fields and contribute to advancements in engineering and technology.



Snapshot in the programs





- 6
- Label 3-D Medical Image using Medical Image Labeler
  - Neural Network Concepts for Medical Imaging

**Slot 2: 02:00 AM to 04:30 PM**

Optimization with MATLAB:

- Introduction to Optimization Toolbox
- Optimization Theory Overview
- Introduction to Global Optimization Toolbox
- Comparison between Optimization & Global Optimization Toolbox

**Day 3: (05-07-2023)**

**Slot 1: 10:00 AM to 1:00 PM**

Electric Vehicles with MATLAB and Simulink:

- Introduction to EV with MATLAB and Simulink
- Modeling Generic Motor for EV
- Modeling BLDC Motor for EV
- Interfacing Hardware to MATLAB Simulink
- Collecting Sensor Data to Control Electrical Vehicle

**Slot 2: 02:00 AM to 04:30 PM**

Machine Learning and Deep Learning with MATLAB

- Data Collection and Datasets used for Machine Learning
- Feature Extraction in Signals
- Supervised Learning and Unsupervised Learning
- Application of Machine Learning in Digital Signals
- Application of Machine Learning in Digital Images
- Challenges in Feature Extraction in Machine Learning
- Architecture of Convolution Neural Network (CNN)
- CNN Design and Training with Deep Network Designer App
- Comparison between ML and DL

# మ్యాట్ ల్యాబ్ లో ముగిసిన అధ్యాపకుల శిక్షణ

కళాశాలలో నిర్వహించిన అధ్యాపకుల శిక్షణ కార్యక్రమం సులభంగా ముగిసింది. ఈ సందర్భంగా కళాశాల అధ్యక్షులు, అధ్యాపకులు, విద్యార్థులు, పేరెంట్లతో కలిసి కార్యక్రమం నిర్వహించారు. ఈ సందర్భంగా కళాశాల అధ్యక్షులు, అధ్యాపకులు, విద్యార్థులు, పేరెంట్లతో కలిసి కార్యక్రమం నిర్వహించారు. ఈ సందర్భంగా కళాశాల అధ్యక్షులు, అధ్యాపకులు, విద్యార్థులు, పేరెంట్లతో కలిసి కార్యక్రమం నిర్వహించారు.

విద్యార్థులు అభ్యుదయ పథకంపై ఈ సందర్భంగా కళాశాలలో వడినే అంతర్గత శిక్షణ కార్యక్రమం అధ్యాపకులకు ఎంతో అనుభవం అని తెలిపారు.



**సమూహం**

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